



UNITED STATES MARINE CORPS

MARINE CORPS BASE

QUANTICO, VIRGINIA 22134-5001

MCBO P1500 1
C 032/p
17 Jun 91

MARINE CORPS BASE ORDER P1500.1_w/ Ch 1, 2, & 3

From: Commanding General
To: Distribution List

Subj: STANDARD OPERATING PROCEDURES FOR MCCDC TRAINING AREAS AND
RANGE CONTROL OPERATIONS (SHORT TITLE: TRAINING AREA AND
RANGE SOP)

Ref: (a) MCCDCO P5720.1A
(b) MCO P3570.1A
(c) Military Installation Map, V734S, Edition I-DMA (NOTAL)
(d) SPARWARINST 5100.12A
(e) NAVMEDCOMINST 6470.2
(f) MCO P5720.60
(g) MCO 6200.1D
(h) BSO 1550.20H
(i) MCCDCO P11015.2B
(j) MCCDCO P5100.1A
(k) MCCDCO 3730.1
(l) NMCLQUATINST 3314.1D
(m) MCCDCO 3130.1

Encl: (1) LOCATOR SHEET

1. Purpose. To publish regulations for the scheduling, control, safe use, and maintenance of ranges and other training area facilities, per the references, at the Marine Corps Combat Development Command, Quantico, Virginia.

2. Cancellation. MCCDCO P1500.1.

3. Background. This SOP provides both range procedures and safety regulations for MCCDC range and training area facilities. These facilities include firing ranges, maneuver areas, field training facilities, and joint-use airspace under the control of the Commanding General, MCCDC.

4. Summary of Revision. This revision contains a substantial number of changes and should be reviewed in its entirety.

5. Recommendation. Recommendations concerning the Training Area and Range SOP are invited and will be submitted to the Commanding General (C 032) via the appropriate chain of Command.

MCBO P1500.1
17 Jun 91

6. Certification. Reviewed and approved this date.


C. N. PASTINO
By direction

DISTRIBUTION: P 10



UNITED STATES MARINE CORPS

MARINE CORPS BASE

QUANTICO, VIRGINIA 22134-5001

MCBO P1500.1 Ch 1
C 032/p
20 Jan 93

MARINE CORPS BASE ORDER P1500.1 Ch 1

From: Commanding General
To: Distribution List

Subj: STANDARD OPERATING PROCEDURES FOR MCCDC TRAINING AREAS AND RANGE CONTROL OPERATIONS (SHORT TITLE: TRAINING AREA AND RANGE SOP)

Encl: (a) New page inserts to MCCDCO P1500.1A

1. Purpose. To transmit new page replacements and direct pen changes to the basic Order.

2. Action

a. Remove present pages 3-27 and 3-28 and replace with pages 3-27, 3-28, and 3-28a attached hereto.

b. Change paragraph 3201.1e to read as follows:

"e. Officer Candidates School (OCS) has priority of use in TA's 2, 3, and 4. Use of these TA's will be scheduled via Operations Division, MCCDC. In order to maintain flexibility and attain maximum usage of TA'S 2, 3, and 4, it is permissible to schedule outside agencies to these areas with the concurrence of and coordination with the S-3, OCS. The OCS, S-3 (during working hours) or the OCS, Officer of the Day (OOD) (after working hours) will maintain the keys to the locks for the gates in these TA'S. The OCS, S-3, or OOD will contact Range Control telephonically to checkout and check-in units to these TA'S. The OIC conducting field training in these TA'S will establish and maintain radio contact with the OCS, S-3 or OOD. The OIC of training will report, in person to OCS, S-3 or OOD prior to and after conducting training."

c. Delete paragraph 3201.1f in its entirety.

3. Change Notation. Paragraphs denoted by an arrow () symbol contain changes not previously published.

4. Filing Instructions. File this Change transmittal immediately following the signature page of the basic Order.

MCBO P1500.1 Ch 1
20 Jan 93

5. Certification. Reviewed and approved this date.



T. e. TAYLOR
By direction

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UNITED STATES MARINE CORPS

MARINE CORPS BASE

QUANTEO, VIRGINIA 22134-5001

MCBO P1500.1 Ch 2
C 032/k
30 Mar 93

MARINE CORPS BASE ORDER P1500.1 Ch 2

From: Commanding General
To: Distribution List

Subj: STANDARD OPERATING PROCEDURES FOR MCCDC TRAINING AREAS AND
RANGE CONTROL OPERATIONS (SHORT TITLE: TRAINING AREA AND
RANGE SOP)

Encl: (1) New page inserts to MCCDCO **P1500.1A**

1. Purpose. To transmit new page replacements and direct pen changes to the basic Order.

2. Action

a. Remove present pages 2-3, 2-4, and 3-27, through 3-28a and replace with corresponding pages attached hereto.

b. In the "Ref:" section, reference (c), change "**V73f4S**" to read "**V734S.**"

c. Paragraph 1003, seventh line, change "**V73f4S**" to read "**V734S.**"

d. Page 2-1, change page number for RANGES to read "2-4" vice "**2-3.**"

e. Paragraph 3210.333, second line, change "Perry Gables" to read "EOD."

f. Change the call sign "Pierced Reefer" to read "Range Control" wherever it appears in the Manual.

3. Summary of Chancre

a. This change provides procedures for the establishment of special boundaries. These procedures permit the partial use of a training area which has a surface danger zone within its limits.

b. This change clarifies the method by which hunting, fishing and outdoor recreation in the training areas are controlled. It clearly establishes that the regulations governing these activities and the official command guest hunters are found in MCCDCO **P11015.2.**

c. Update was made to reference (c).

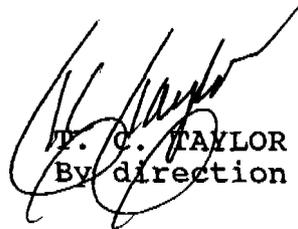
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30 Mar 93

d. Plain language call signs are established for Range Control and EOD.

4. Change Notation. Paragraphs denoted by an arrow () symbol contain changes not previously published.

5. Filing Instructions. File this Change transmittal immediately following the signature page of Change 1 to the basic Order.

6. Certification. Reviewed and approved this date.


D. C. TAYLOR
By direction

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UNITED STATES MARINE CORPS
MARINE CORPS BASE
QUANTICO, VIRGINIA 22134-5001

MCBO P1500.1 Ch 3
C 032/p
23 Jun 93

MARINE CORPS BASE ORDER P1500.1 Ch 3

From: Commanding General
To: Distribution List

Subj: STANDARD OPERATING PROCEDURES FOR MCCDC TRAINING AREAS AND RANGE CONTROL OPERATIONS (SHORT TITLE: TRAINING AREA AND RANGE SOP)

Encl: (1) New page inserts to MCCDCO **P1500.1A**

1. Purpose. To transmit new page replacements to the basic Order.
2. Action. Remove present pages 2-1, 2-2, 2-13 through 2-23, A-1, and A-2 replace with pages attached hereto.
3. Change Notation. Items denoted by an arrow () symbol contain changes not previously published.
4. Filing Instructions. File this Change transmittal immediately following the signature page of Change 2 to the basic Order.
5. Certification. Reviewed and approved this date.


M. R. STEELE
Commanding General
Marine Corps Base

DISTRIBUTION: **P10**

MCBO P1500.1
17 Jun 91

LOCATOR SHEET

Subj: TRAINING AREA-AND RANGE SOP

Location:

(Indicate the location(s) of the copy(ies) of this
Manual.)

ENCLOSURE (1)

RANGE CONTROL SOP

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TRAINING AREA AND RANGE SOP

CHAPTER 1

GENERAL INFORMATION

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TRAINING AREA AND RANGE SOP

CHAPTER 1

GENERAL INFORMATION

1000. PURPOSE. To assign responsibilities, describe the various training facilities, provide procedures for obtaining training services or scheduling the use of facilities, and prescribe safety requirements and references for live-firing, nonlive-firing, and air or waterborne operations.

1001. APPLICABILITY. This Manual is applicable to all personnel using MCCDC airspace, water training resources, training facilities, training areas (TA), and firing ranges.

1002. RESPONSIBILITIES

1. Operations Division (C 03). Develops and reviews operational plans; schedules **TA's**, firing ranges, and training facilities; provides explosive ordnance disposal (EOD) support; enforces range safety regulations, and coordinates range maintenance. The following personnel support the performance of these duties:

a. Training Officer (C 032). Receives requests for and schedules **TA's** and facilities; coordinates training support requirements with other MCCDC Divisions and agencies; coordinates training and conducts training inspections.

b. Training Requirements Officer (C 0321). Analyzes and evaluates training requirements for MCCDC; identifies and defines deficiencies and future requirements; initiates and coordinates action for maintenance, improvements, and modernization of ranges; coordinates with other MCCDC divisions in executing effective land use management.

c. Range Control Officer (RCO) (C 0322). Controls and ensures safe operation of all ranges and **TA's** 1, and 5 through 17 (**TA's** 2, 3, and 4 are controlled by the Commanding Officer, Officer Candidates School (OCS)). Provides limited TA maintenance and coordinates general maintenance of ranges and **TA's** with the Director, Facilities Division. Disseminates fire danger classification changes and assists in controlling and preventing forest and brush fires. Monitors and disseminates heat stress conditions from May through September; and ensures the proper police of **TA's** and ranges.

d. EOD Officer (C 0323). Detects, identifies, renders safe or inert, recovers, evaluates, and disposes of unexploded ordnance which presents a potential hazard to personnel, operations, or installations. Provides support to law enforcement agencies and civil authorities.

- e. Head, Training and Audiovisual Support Center (C 034). Provides training support from facilities **mainside** (bldg #3009) and the TBS cantonment area (bldg 24152). Assets available for training enhancement include, but are not limited to, the following: artillery and machinegun simulators, remote targets, MILES gear, and various weapons models/simulators.
2. Director, Facilities Division (C 04). Provides engineering planning for construction, repair, and rehabilitation of training facilities, public works, and utilities. Provides general maintenance for MCCDC ranges and **TA's**; maintains, protects and develops natural resources, improves grounds, utilities, other service type facilities, equipment, and other real property.
- a. Range Maintenance Detachment (C 0411). Provides engineering assistance, construction and general maintenance of ranges and TA facilities.
- b. Game Warden (C 042). The Game Warden, located at the Game Check Station, controls hunting, fishing, and woodcutting. Available areas are designated by the Director, Operations Division per the weekly Training Area and Range Schedule.
3. Public Affairs Officer (PAO) (C 058). Issues media warnings to the local news media before any live-firing exercises involving potential hazard or noise disturbance, indicating all pertinent information concerning scheduled exercises and their possible effects. In addition, warns all inhabitants of the installation and surrounding areas of the hazards of trespassing on ranges and handling unexploded ordnance. MCCDCO **P5720.1** requires all range injuries or deaths to be promptly reported to the **PAO** or his/her assistant. The names of injured or dead personnel will be released **only** by the **PAO** after official notification of the next of kin.
4. Provost Marshal (C 27). Assists Range Control by patrolling, apprehending, arresting, or ticketing trespassers and all others engaged in unlawful activities in MCCDC **TA's**.
5. CO. Weapons Training Battalion (WTBn) (TS 42). Operates rifle and pistol ranges for qualification and familiarization firing. Provides individual weapons instruction and coaching. Provides facilities in support of the Competition-in-Arms Program. Exercises administrative control of the Marksmanship Training Unit. Trains and equips rifle and pistol teams to represent the Marine Corps in interservice, national and international matches. Provides administration, logistics, and training for assigned personnel.
6. Director, Reserve Affairs Division (C 08). Acts as point of contact for units of the Marine Corps and Naval Reserves and coordinates the scheduling of MCCDC ranges and **TA's** as required by reserve units.

7. CO, MCAF (C 141. Coordinates scheduling of R-6608 airspace with the Federal Aviation Administration (**Dulles** International Airport), in accordance with the weekly Training Area and Range Schedule published by the Director, Operations Division.

1003. TRAINING FACILITIES. MCCDC, encompasses approximately 66,000 acres of TA including 21 ranges, 33 **TA's**, 3 demolitions ranges or areas, 5 observation and gun positions, 75 **LZ's**, 4 **DZ's**, a Combat Village, and 2 Forward Arming/Refueling Points. Additionally, there are 4 inland water recreational areas, (**Lunga** Reservoir, Dalton's Pond, Breckinridge Reservoir, and **Aquia** Reservoir) and the Potomac River. See Military Installation Map, **V734S. Edition 1-DMA** for map details. Joint use restricted airspace and military operating airspace areas are designated above the MCCDC **TA's** for coordination of air traffic and combat training.

TRAINING AREA AND RANGE SOP

CHAPTER 2

RANGES, TRAINING AREAS AND SPECIAL FACILITIES

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TRAINING AREA AND RANGE SOP

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TRAINING AREA AND RANGE SOP

CHAPTER 2

RANGES, TRAINING AREAS AND SPECIAL FACILITIES

2000. GENERAL INFORMATION

1. The purpose of this Chapter is to provide general range and training facilities information. The ranges aboard the Marine Corps Combat Development Command (MCCDC) provide the facilities to conduct realistic, beneficial training within the parameters of common sense and pertinent safety measures.

2. The MCCDC terrain is subdivided into 17 training areas (**TA's**). **TA's** 1 through 4 are located east of the **I-95/U.S.** Rt. 1 corridor, while **TA's** 5 through 17 are to the west. When the land west of **I-95/U.S.** Rt. 1 was acquired, Ranges 1 through 15 were created clockwise along the perimeter of the reservation and along MCB 1, firing into the center of the area.

3. To promote the maximum possible use of ranges and related training facilities, the following criteria must be strictly complied with:

a. All live-fire evolutions must be conducted per this Manual, **MCO** 3570.1, all applicable FM/TM's, and the weapons matrices located in appendix A of this Manual.

b. All live-fire must be conducted safely, observing all range control measures (i.e., limit markers, limits of advance, azimuths of fire, charges, surveyed firing positions, etc.) as delineated in this Manual and Range Safety Cards issued by Range Control.

 c. Special boundaries may be established to permit using units to utilize a portion of a training area in which an active surface danger zone (SDZ) impinges. Each portion of a special boundary must be external to all **SDZ's** and associated with an identifiable terrain feature on the ground and the Military Installation Map, **V734S**, Edition **1-DMA**. A special boundary will be requested by the using unit 30 days in advance. Special boundaries will be approved on an individual basis by the CG MCCDC (C 032) and will appear on the weekly Training Area and Range Schedule. The OIC of the unit utilizing a special boundary in a training area will ensure that all personnel remain within the authorized area.

4. The following range information is designed to provide general information. Complete and specific information relating to range control measures are available at Range Control.

 2001. TRAINING AREAS. TA boundaries are delineated in Military Installation Map, **V734S**, Edition **1-DMA**. Any restrictions and special instructions will be briefed to problem directors or **OIC's** during their check in at Range Control.

2002. RANGES. Figures 2-1 through 2-24 provide general information about current active MCCDC training facilities (drawings, maps, and range safety cards). Detailed information about each range is available at Range Control and will be issued to Range Safety Officers (RSO) at range check out time.

RANGE 3-A	
Grid Location	856647.
Description	Range 3-A is designed for basic weapons instruction and familiarization firing of individual small arms.
Target Descriptions	Multiple tire targets.
	Various hard targets.
Fixed Facilities	Ammo Breakdown Building.
	Latrine.
	Flagpole.
	Dumpster.
	Bleachers.
Range Phone	#5480.
Special Instructions	An old pistol range is located south of the Range 3-A access road. This pistol range is no longer an approved range facility and will not be used for live-firing.

Table 2-1.--Range 3-A.

TRAINING AREA AND RANGE SOP

RANGE 3-B	
Grid Location	860645.
Description	Range 3-B is utilized for instruction and application of hand grenade throwing.
Fixed Facilities	Three grenade impact pits with 18 throwing pits.
	Cinderblock observation bunker.
	Various wooden "window targets" on practice range.
Range Phone	#5480.
Special Instructions	Shotgun range in R-3A may not be used concurrently with R-3B. All individuals occupying range must wear helmet and flak jacket when range is "Hot" .

Table 2-2. --Range 3-B.

TRAINING AREA AND RANGE SOP

RANGE 4	
Grid Locations	839647.
Description	Range 4 is used for firing field artillery in support of training.
Target Description	TA-9 impact area as selected by forward observer.
Fixed Facilities	None.
Range Phone	#5453.
Special Instructions	None.

Table 2-3.--Range 4.

TRAINING AREA AND RANGE SOP

RANGE 5	
Grid Location	815651.
Description	Range 5 is designed for live-fire and maneuver tactics at the infantry squad level. In addition, R-5 may be used as a firing position for artillery firing into TA-9 impact area.
Target Descriptions	Various tire targets.
Fixed Facilities	Multiple Demo Beds (used to simulate incoming fire).
	Tower.
	Bleachers.
	Ammo Breakdown Building.
	Grounding Points.
	FARP site.
	Latrine.
Dumpster.	
Range Phone	#5491.
Special Instructions	Fire and maneuver and demolition rules apply. See section on "Demolitions" (paragraph 3200.9).

Table 2-4.--Range 5.

TRAINING AREA AND RANGE SOP

RANGE 6	
Grid Location	797654.
Description	R-6 is used as a firing position for the 105mm Howitzer . The R-6 pond may be used for limited LVTP/LAV training in conjunction with small unit training. Additionally, R-6 is approved for .50/7.62 defilade firing into TA-9.
Fixed Facilities	Surveyed Gun Positions.
	Latrine.
	Storage Shed.
Range Phone	#5492.

Table 2-5.--Range 6.

TRAINING AREA AND RANGE SOP

RANGE 7	
Grid Location	794663.
Description	R-7 is well suited for instruction in call for fire, close-in fire support and close air support procedures.
Target Descriptions	Numerous hard targets (tanks, vehicles, etc.).
	Tank targets.
Fixed Facilities	Eight mortar positions.
	Ammo Breakdown Building.
	Six crew served weapons positions.
	One Tank position (supports 3 tanks).
	Latrine.
	Bleachers.
Range Phone	#5492.
Special Instructions	R-8A may not be used simultaneously with air delivered ordnance or mortars controlled from R-7 into TA-9 impact area. The blue diamond limit marker is the left hand limit for the M2/M85 , Tank Main Gun, and the 25mm chain gun.
Air Munitions Impact Point	Lat/Long: 38 31.5N 77 31.0W Grid: 80426756.

Table 2-6.--Range 7.

TRAINING AREA AND RANGE SOP

RANGE 8	
Grid Location	778687.
Description	R-8 complex is designed for machinegun instruction, familiarization firing, and machine gun qualification firing.
Target Descriptions	Numerous hard targets (tanks, dumpsters, etc.).
Fixed Facilities	Tower.
	Portable pistol target holders.
	Bleachers.
	Machinegun defilade firing line.
	Storage Shed.
	Machinegun qualification line.
	Latrine.
	Dumpsters.
Range Phone	#5347.
Special Instructions	R-8A cannot be occupied when Dragon/SMAW is being fired from R-8. Weapons not appearing on the authorized listing may be permitted with approval of the Dir, OpsDiv (i.e. Weapons testing by MCRDAC, Soviet weapons, etc.). R-8 may not be occupied when the R-15A is being used.

Table 2-7.--Range 8.

TRAINING AREA AND RANGE SOP

RANGE 8A	
Grid Location	779794.
Description	R-8A is designed for familiarization firing of light anti-tank weapons and assault rocket launchers.
Target Description	Various hard targets (tanks, dumpsters, and old construction vehicles).
Fixed Facilities	Approximate 40 foot firing berm.
	Bleachers.
	Dumpsters.
Range Phone	#5347.
Special Instructions	Cannot be occupied when Dragon/SMAW is being fired from R-8. R-8A may not be occupied when R-15A is being used.

Table 2-8. --Range 8-A.

TRAINING AREA AND RANGE SOP

RANGE 9	
Grid Location	779718.
Description	R-9 is designed for weapons instruction and field firing of anti-tank and assault weapons fired at the rifle company level.
Target Description	Various hard targets (trucks, dumpsters, etc.).
Fixed Facilities	Tower.
	Latrine.
	Dumpsters.
Range Phone	#5407.
Special Instructions	None.

Table 2-9 .--Range 9.

TRAINING AREA AND RANGE SOP



RANGE 10	
Grid Location	78216965
Description	R-10 is a small arms range that allows for firing from moving vehicles.
Target Description	Soft targets.
Fixed Facilities	None.
Range Phone	None.
Special Instructions	Explosive Ordnance Disposal personnel will sweep the road from Range 10 to Range 15 prior to units using Range 10. Explosive Ordnance Disposal personnel must accompany personnel who emplace targets. The munitions authorized for this range are 5.56mm (ball and tracer), 40mm inert, and all pistol munitions (9mm , 45 caliber, and 38 caliber.)

Table 2-10.--Range 10.

TRAINING AREA AND RANGE SOP

RANGE 11	
Grid Location	796727.
Description	R-11 is designed for both simulated and live-firing for a squad or platoon in the assault.
Target Description	Various silhouette targets (pop-up), must coordinate with Hd, TAVSC for use.
Fixed Facilities	Tower.
	Bleachers.
	Dumpsters.
	Ammo breakdown building.
	Mess area.
	Latrine.
	Demolition beds.
Range Phone	#5403.
Special Instructions	See section on "Demolitions" (paragraph 3200.9).



Table 2-11.--Range 11.

TRAINING AREA AND RANGE SOP

RANGE 12 A/B/C	
Grid Location	To be determined.

 Table 2-12. --Range 12 A/B/C.

TRAINING AREA AND RANGE SOP

RANGE 14	
Grid Location	880728.
Description	R-14 is a multi-purpose small arms range. There are also fortified positions and trench network.
Target Description	Various soft targets (must be furnished by using unit).
Fixed Facilities	Tower (with electricity).
	FARP site.
	Various firing ports.
	Latrine and dumpster.
	Storage shed.
	Ammo breakdown area.
Range Phone	#5475.
Special Instructions	Only blank ammo will be used when attacking the fortified position.



Table 2-13.--Range 14.

TRAINING AREA AND RANGE SOP

RANGE 15	
Grid Location	791711.
Description	R-15 is an all-purpose range used for rifle company or platoon defensive fires.
Target Description	Various hard targets (tanks),
Fixed Facilities	Tower.
	Bleachers.
	Latrine.
	Dumpster.
Range Phone	#5401.
Special Instructions	None.



Table 2-14.--Range 15.

TRAINING AREA AND RANGE SOP

RANGE 15A	
Grid Location	794712.
Description	R-15A is a fire and maneuver course designed to accommodate squad or platoon size units.
Target Description	Various soft targets (must be supplied by using unit).
Fixed Facilities	None.
Range Phone	#5401.
Special Instructions	No use while R-8/R-8A occupied.

Table 2-15.--Range 15A.

RANGE 15B	
Grid Location	794713.
Description	R-15B is a live-fire ambush course.
Target Description	Various soft targets (must be supplied by using unit).
Fixed Facilities	None.
Range Phone	None.
Special Instruction	Claymore site: Grid 79807129.



Table 2-16.--Range 15B.

TRAINING AREA AND RANGE SOP

2. Observation Posts (OP) and Gun Positions (GP)

OP-13	
Grid Location	779713.
Description	Designed for field firing of indirect fire weapons and forward observer training.
Fixed Facilities	Latrine.
Range Phone	#5402.
Special Instructions	None.

 Table 2-17.--OP-13.

OP-15	
Grid Location	787706.
Description	Designed for field firing of indirect fire weapons and forward observer training.
Fixed Facilities	Latrine.
Range Phone	None.
Special Instructions	None.

 Table 2-18.--OP-15.

TRAINING AREA AND RANGE SOP

GP-31	
Grid Location	767689.
Description	This GP is used primarily as an artillery GP. There are no permanent emplacements.
Fixed Facilities	None.
Range Phone	None.
Special Instruction	None.

 Table 2-19.--GP-31.

GP-38	
Grid Location	765712.
Description	This GP is used as an artillery GP. There are no permanent emplacements.
Fixed Facilities	Latrine.
Range Phone	#5460.
Special Instructions	None.

 Table 2-20.--GP-38.

GP-44	
Grid Location	776771.
Description	This GP is used as an artillery GP. There are no permanent emplacements.
Fixed Facilities	None.
Range Phone	None.
Special Instructions	None.

 Table 2-21--GP-44.

TRAINING AREA AND RANGE SOP

2003. SPECIAL FACILITIES

1. Demolition Ranges

Murphy Demolitions Range	
Grid Location	862649.
Description	Murphy Demo Range is designed for instruction in basic demolitions and engineer operations.
Fixed Facilities	Bleachers.
	Large covered bunker.
	Dumpsters.
	Latrine.
	1 steel pit.
	Covered buildings.
Range Phone	#5430.
Special Instructions	Charges are limited to a maximum of 10 pounds of explosives unless larger charges are approved by the Director, Operations Division. Additionally, whenever a charge greater than 2 pounds is utilized, Range Control must be notified and MCB 3 must be secured 200 meters north and south of the range entrance. MCB 3 must be secured only at the time of actual demolition. The M-67 hand grenade may be authorized for use at grid location 86236506 if specifically approved by the CG, MCCDC (C 03).



Table 2-22. --Murphy Demolitions Range.

TRAINING AREA AND RANGE SOP

Charlie Demolitions Range	
Grid Location	894655.
Description	Use of Charlie Demo Range is generally limited to EOD and may not be used for regular training evolutions by other agencies unless approved by the Director, Operations Division.
Fixed Facilities	Bleachers.
Range Phone	#5424.
Special Instructions	Explosive detonations exceeding 20 pounds will be coordinated with the Director, Operations Division.



Table 2-23. --Charlie Demolitions Range.

TRAINING AREA AND RANGE SOP

Goettge Demolitions Range	
Grid Location	774725.
Description	Goettge Demo Range is utilized to provide rudimentary and advanced demolitions instruction. Remaining concrete walls and foundations are utilized for demolitions.
Fixed Facilities	Four cinderblock walls.
	Three building facades.
	A clearing house.
Range Phone	None.
Special Instructions	Charges are limited to (1) pound maximum charge unless larger charges are approved by the Director, Operations Division. Demolition operations at any Goettge facility requires prior approval from the Director, Operation Division.



Table 2-24.--Goettge Demolitions Range.

TRAINING AREA AND RANGE SOP

2. MOUT Facilities

Combat Village	
Grid Location	863750.
Description	Combat Village is designed for MOUT training on squad/platoon level.
Fixed Facilities	Buildings and obstacles/barriers
	Sewer/tunnel and two corridors
	Head and dumpster.
	LZ-20 is located within 50 meters of Combat Village at grid 864751.
Range Phone	#5473.
Special Instructions	BLANK AMMUNITION ONLY.
	Smoke and CS grenades will not be thrown or placed within any of structures or tunnel system.
	Fires are not allowed inside the structures.
	Tracked vehicles are not allowed within the compound.
	Police of all brass and trash must be performed prior to securing.
	No foreign objects will be left in windows after the exercise is complete. Sandbags will be stacked at designated areas; any obstacles (i.e., furniture, logs, etc.) will be stacked prior to unit departure.
	Any communication/concertina wire or any other obstacle will be removed and properly secured prior to completing exercise.



Table 2-25. --Combat Village.

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CHAPTER 3

RANGE CONTROL POLICIES AND PROCEDURES

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TRAINING AREA AND RANGE SOP

CHAPTER 3

RANGE CONTROL POLICIES AND PROCEDURES

SECTION 1: DUTIES AND RESPONSIBILITIES

3100. RANGE CONTROL OFFICER (RCO)

1. Under the direction of the Director, Operations Division, the RCO will control all ranges and **TA's**, enforce safety and range regulations, manage **TA's** and supervise range utilization, availability, serviceability, and accessibility.
2. Provide limited maintenance and coordinate general maintenance of training facilities through the Director, Facilities Division.
3. Assist in controlling and preventing forest and brush fires within the **TA's**.
4. Monitor and disseminate heat stress condition information from May through September.
5. Ensure all users properly police all **TA's** and ranges that they schedule and use.

3101. RANGE CONTROL DUTY SECTION. The Range Control Duty Section is located at Camp Barrett in bldg 24144.

- 
1. Range Control may be contacted at telephone extensions **5321/5322**, or by radio 38.70 FM, 328.4 UHF, using the call sign "Range Control'."
 2. The Range Control Duty Section consists of the RCO or Range Control Duty **NCO** (RCDNCO), and range patrolmen.
 3. The RCO or RCDNCO will be present at the Range Control, or readily accessible during all live-firing exercises.

3102. RANGE CONTROL DUTY NONCOMMISSIONED OFFICER

1. The RCDNCO is the senior enlisted representative responsible for coordination and control of training to the extent necessary for safe operations within MCCDC **TA's**, facilities, and ranges.
2. The RCDNCO may issue "check fire/cease **fire**" orders when conditions, which may be unknown to the training unit, endanger personnel, equipment, or facilities. The cease fire order may also be given when the using unit is in violation of applicable regulations. Inquiries concerning violations will be directed to the RCO.

3103. DUTIES OF THE COMMANDING OFFICER OF USING UNITS

1. Designate an OIC and Range Safety Officer (RSO) (commissioned officer, warrant officer, SNCO), in writing, for each firing point or range as specified in Table 3-1.
2. Ensure all personnel are familiar with local range procedures and safety requirements.
3. Establish an internal program of instruction covering OIC/RSO duties and responsibilities to ensure:
 - a. Individual competence in the performance of assigned training and safety duties.
 - b. Knowledge of weapon systems which will be used during training.
 - c. Understanding and coordinating plans for exercises and training with the Director, Operations Division.
4. Comply with this Manual and certify in writing that **OIC's/RSO's** have completed the above range training program.

3104. DUTIES OF THE OIC

1. Prior to Firing. The CO is responsible for the overall safe conduct of training and compliance with this Manual and all applicable Orders. The CO will appoint an OIC as required by **MCO P3570.1** who will be present at the unit firing area. The OIC may serve as the RSO if the exercise permits safe compliance with all duties. Additionally, prior to firing, the OIC will:
 - a. Check out the assigned range(s) from Range Control.
 - b. Assume responsibility for the scheduled range; related air or water space, and training facility.
 - c. Obtain or certify possession of required safety equipment.
 - d. Receive a briefing from Range Control on conditions or -events that may affect range utilization.
 - e. Certify that all pertinent range and safety regulations have been read, understood, and are complied with.
 - f. Ensure appropriate medical support and safety vehicle are present with the unit and that all personnel are wearing proper safety equipment (see paragraph 3200.6).

OIC AND RSO ASSIGNMENT REQUIREMENTS

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WEAPON SYSTEM	OIC			RSO		
	OFF	WO	ENL	OFF	WO	ENI
Practice hand grenades and rifle grenades; subcaliber training devices; LASER ranges; firing devices; simulators, trip flares; small arms and machineguns.	X	X	E-6	None required except for LASER ranges.		
Chemical agents and smoke.	X	X	X	None required.		
Aerial gunnery, air defense weapons; flamethrowers; live grenades (hand and rifle); mines and demolitions; mortar; recoilless weapons; rockets; guided missiles; and tank cannon.	X	X	E-7	X	X	E-6
Artillery.	X	X	E-7	X	X	E-6
Live-fire exercises using organic weapons, squad through company, battery, troop.	X	X	E-7	X	X	E-6
Combined arms live-fire exercises using outside fire support: Squad-section-platoon, company, battery, troop.	X	X	E-7	X	X	E-6
Combined arms live-fire exercises using outside fire support; battalion, squadron or larger.	x			X		

Table 3-1. --OIC and RSO Assignment Requirements.

g. Ensure that the impact area or range is clear of all personnel and that all safety measures directed by this Manual have been taken (e.g., Use of barriers, posting of range gate guards when necessary to deny access to the range/impact area).

h. Ensure dual communications means (i.e., phone and radio, or dual radios) are established and maintained with Range Control.

i. Ensure all safety precautions are taken.

j. Obtain clearance to go **"Hot"** from Range Control.

2. During firing the OIC will ensure that:

a. No misconduct occurs on the firing line.

b. All ordnance impacts are observed to ensure projectiles land within the prescribed impact area. Firing will be stopped immediately and Range Control notified if ordnance impacts outside of prescribed impact areas.

c. The impact area is constantly observed and controlled to ensure that it remains clear.

d. An accurate count of all duds is kept and turned in to Range Control upon completion of the exercise. Firing will be stopped immediately and Range Control notified if a dud lands outside the prescribed impact area. The dud should be located and marked using Range **Control/EOD** assistance as required for safety.

e. An accurate count and type of all munitions expended is maintained, and count turned in to Range Control upon completion of the exercise.

f. Firing is stopped immediately when any unsafe act is observed or reported.

g. Any accidents, injuries, or fires are reported immediately to Range Control.

3. After firing the OIC will ensure that:

a. All weapons have been cleared, and notification of going **"Cold"** is given to Range Control.

b. Report any duds that fall outside of the proper impact area, their location, and method of marking to Range Control.

c. The area is policed before leaving. Ensure all brass, cartridge cases, and reusable containers are removed from the range and returned to the appropriate facility.

d. All safety equipment is promptly returned to Range Control.

e. Required paperwork associated with range utilization is completed (e.g., Range Report Sheet).

f. Check in procedures are completed with Range Control and responsibility for the facility is relinquished.

3105. DUTIES OF THE RSO

1. The RSO is appointed by the CO of the firing unit, per Table 3-1. **All RSO's** must complete a standard program of instruction, developed by MCCDC Range Control, on RSO duties and responsibilities.

2. Before any firing, the RSO will:

a. Receive the safety briefing from Range Control on RSO duties, specific range regulations, and range safety cards.

b. Conduct a safety brief for all personnel present.

c. Ensure weapons are properly positioned at authorized firing sites as indicated by the range safety cards and overlays.

d. Brief road guards in their duties and positions, that barriers or gates are properly positioned and that road guards have communication with the RSO as necessary (radio, land line, runner, etc.).

3. During firing the RSO will:

a. Ensure ONLY AUTHORIZED WEAPONS as indicated on the master Training Area and Range Schedule, are utilized on the scheduled range.

b. Allow ONLY AUTHORIZED MUNITIONS, including proper charges, fuzes, and increments, and ensure they are properly utilized in accordance with Range Safety Cards and all applicable regulations.

c. Verify that proper safety data is applied, to include charges, fuze, and projectile.

d. Monitor the safety communications net at all times.

e. Order an immediate cease-fire or check-fire when any unsafe condition is observed, including loss of communication.

f. Enforce the safety regulations prescribed in this Manual.

g. Ensure the SDZ is clear and that personnel wear appropriate safety equipment and hearing protection.

4. After firing, the RSO will:
 - a. Verify all weapons are safe and cleared.
 - b. Assist OIC in supervising police call.
 - c. Account for all saved/expended rounds.

TRAINING AREA AND RANGE SOP

CHAPTER 3

RANGE CONTROL POLICIES AND PROCEDURES

SECTION 2: CONTROL PROCEDURES

3200. LIVE-FIRE RANGES

1. General Information. Safety regulations governing the firing of live ordnance within the boundaries of Marine Corps Combat Development Command (MCCDC) are contained in **MCO P3570.1**. All training involving the use of live ammunition will be per **MCO P3570.1**, applicable **FM's** and **TM's**, unit or Command safety SOP's, and this Manual.

2. Training activity involving air or water space, **TA's**, or **live-firing** not published in the weekly Training Area and Range Schedule is strictly prohibited.

3. Surface Danger Zones (SDZ)

a. The SDZ is that segment of a range endangered by the firing of a particular type of weapon. These areas ensure safe firing of weapons only when employed with properly functioning equipment and devices, and when trained and competent personnel follow proper firing procedures.

b. The SDZ of many ranges overlap, creating a common impact area. Caution must be exercised, particularly when other ranges are being used, to ensure that the area is safe before firing or moving down range (i.e., fire and maneuver ranges). Additionally, many roads are closed when live-firing is being conducted, and gates are locked during that period. **DO NOT BYPASS LOCKED GATES.** If given a key to access a certain range or area, ensure that all gates are left in the manner found or leave a gate guard.

4. Check In and Check Out Procedures

a. Prior to reporting to Range Control, the OIC and Range Safety Officer (RSO) will become completely familiar with the contents of this Manual. The OIC/RSO of each exercise, or designated representative, must report in person on the day of training to Range Control. If the range is available, it may be signed out prior to the day of the scheduled exercise.

b. The OIC/RSO will have access (through Range Control) to a copy of the weekly Training Area and Range Schedule, daily master overlays, and all pertinent information concerning heat stress data, fire danger classification, and weather reports. Based on the Training Area and Range Schedule and overlays, the OIC/RSO will notify Range Control prior to commencing the exercises of any

special concerns or dangerous situations and request clarification if there is any uncertainty concerning the schedule or range regulations.

c. The OIC/RSO will check out the pertinent equipment and individual range regulations, along with any updated information. If gate keys are given to an OIC/RSO to expedite access to a certain area, any gates opened in transit must either be RELOCKED or POSTED WITH A GATE GUARD.

d. Prior to departing Range Control, the OIC/RSO will obtain a Range Control Check Sheet and Report Sheet. Upon completion of the exercise the OIC/RSO will return the Range Control Check Sheet and Report Sheet to Range Control. Any information not available prior to the exercise (such as dud count/ammunition expenditure) will be added to the Range Control Check Sheet at the end of the exercise.

e. Signing for a range as OIC/RSO indicates a thorough **understanding** of MCCDCO P5720.1, MCO P3570.1, Military Installation Map, V73f4S, Edition 1-DMA, SPARWARINST 5100.12, NAVMEDCOMINST 6470.2, MCO P5720.60, MCO 6200.1, BSO 1550.20, MCCDCO P11015.2, MCCDCO P5100.1, MCCDCO 3730.1, NMCLQUATINST 3314.1, and MCCDCO 3130.12 of this Manual as they pertain to the evolution being conducted, individual range regulations, all information as indicated on the Range Information Board, and all weapons/munitions to be utilized during the exercise.

f. If multiple firing points are in use, each firing point will have a Position Safety Officer assigned by the **OIC/RSO**. This may include the section leader of the particular weapons system being fired.

5. Communications

a. Two means of communications are required between the unit conducting training and Range Control. Radio will be the primary means of communication. If telephone is available at the range, it will be used as alternate communications instead of a second radio. For range phone numbers see Tables 2-1 through 2-24.

b. Units will monitor the safety communications net AT ALL TIMES. The Range Control Duty Noncommissioned Officer (RCDNCO) is the net control, (Call sign "Range Control", at 38.70 FM or 328.4 UHF). Units must request to go "Hot" and "Cold" and give radio checks every hour. If at any time a unit loses communication with "Range Control" that unit will put itself in a check-fire **condition** until communications are reestablished.

c. Tactical call signs will not be used on the safety net. Units will refer to themselves by range numbers (i.e., "This is Range 7") or by the corresponding line number indicated on the weekly Training Area and Range Schedule preceded by "Tango" (i.e., "Tango 17" would refer to the unit on line 17.)

d. The responsibility for proper communication with Range Control rests with the training unit.

e. During emergency procedures, all units will continue to monitor the safety net. Training may continue unless a general check-fire is put into effect by Range Control. All units will render assistance as requested by Range Control.

6. Safety Equipment

a. Kevlar helmets and flak jackets will be worn by personnel on all live-fire ranges involved with high explosives, munitions, or on demolition ranges. Hearing protection will be worn during all firing, except live-fire and maneuver where personnel must hear the unit leader's commands. Helmets and flak jackets are not required while conducting live-fire and maneuver if high explosive munitions are not used, and if approved by the Director, Operations Division.

b. Red flags must be displayed from range flagpoles before and during all live-firing. Red blinking lights will be utilized at ranges during night firing. Both flags and lights are provided by Range Control.

c. Red smoke grenades and red pyrotechnics are used as emergency signaling devices only.

7. Range Limit Markers. Range limit markers have been placed on all ranges for direct fire weapons. All direct fire weapons will fire between the inside edges of the limit markers only. Range markers must not be used as targets. Units destroying range markers will be reported as a range violator. Mortars and artillery fire will be given a left and right azimuth as a means of controlling lateral limits of impact. Under no circumstances will weapons be fired outside these limits. Because different training evolutions require different limit markers, verify applicable limit markers on Range Safety Cards issued by Range Control.

8. Weapons and Ammunition

a. Alteration of Ammunition. The alteration of Class V supplies is not authorized under any circumstances.

b. Blank Ammunition. Personnel will be instructed on the safety precautions for firing blank ammunition prior to distribution. Blanks will be visually inspected prior to use, to ensure their safe condition. Particular care will be taken to ensure that blank ammunition and ball ammunition are never mixed.

c. Flat Trajectory/High Velocity Weapons. Firing of flat trajectory weapons must conform to appropriate SDZ diagrams in all respects. See **MCO P3570.1** for specific restrictions. The proximity of roadways, adjacent ranges, and maneuver areas demand that careful

consideration be given to the range and impact point of flat trajectory projectiles to ensure that they impact within established range fans.

d. Field Storage Areas. No projectile will be fired over ammo, magazines, or field storage areas. Firing is not permitted if the SDZ for the weapon falls within any designated field storage area. Special care must be taken to ensure that no ammunition is within the back-blast fan of certain weapons systems Tube Launched Optically Tracked Wire Command Link Guided Missile (TOW), Light Armored Assault Weapon (**LAAW**), Shoulder Launch Multi-Purpose Assault Weapon (SMAW), AT-4, dragon, etc.). Ammunition placed on ranges will be guarded at all times. Stored ammunition will be covered to protect it from the natural elements. Precautions will be taken to prevent accidental ignition or detonation by brush fires or by high frequency radio emissions. Ammunition, blank or otherwise, will never be buried within MCCDC **TA's** or ranges.

e. Malfunctions and Accidents. Ammunition that fails to perform as expected can normally be attributed to a malfunction, human error, or a weapon/equipment deficiency. When this occurs, take appropriate immediate action, suspend further firing as necessary, and call Explosive Ordnance Disposal (EOD) if needed. Using units are responsible for malfunction reports, which should be reported through the unit's logistics personnel.

9. Demolitions. The use of high explosive demolitions will be confined to designated demolition ranges. This specifically applies to all demolition beds located on fire and maneuver ranges.

a. Charges will be fired in specially prepared pits or enclosures with positive means to keep personnel at safe distances as specified in Chapter 18 of **MCO P3570.1A**. Only one 1/4 pound charge will be placed above ground in demo beds per firing.

b. Measures to protect hearing, injury from fragmentation, and inadvertent/premature detonation will be taken.

c. All electrical demolitions training operations must be discontinued on approach of an electrical storm.

d. Mines, fuses, special demolitions, firing devices, trip flares, and simulators will be handled only by qualified individuals and per Chapter 18 of **MCO 3570.1A**.

10. Dud and Unserviceable Ammunition

a. Dud rounds impacting somewhere other than designated impact areas will be reported immediately to Range Control. The Range Control Officer (RCO) will request assistance from the EOD Officer.

b. Duds will not be handled, moved, or destroyed except by EOD personnel or personnel under EOD supervision. Personnel finding/reporting dud ordnance will mark its location, provide a guide if possible, and notify Range Control immediately.

c. Unused or unserviceable ordnance will not be reported as duds but will be marked "unused" or "unserviceable" and returned to the ammunition supply point by the using unit. Misfires and **hang-fires** will be cleared by the using unit. All safety pins, bands, clips, etc. will be replaced. If all safety devices cannot be replaced, place the item in a safe area and notify Range Control for EOD assistance.

d. Any person having knowledge of the whereabouts of live ammunition, pyrotechnics, **"duds"**, abandoned ammunition or potentially hazardous ammunition will report such information to the RCO, Range Control, or Provost Marshal.

11. Weapon Restrictions and Firing Considerations

a. Overhead and Flanking Fires. Detailed firing precautions for **overhead** and flanking fires are contained in **MCQ P3570.1**. Overhead fire from mortars or from moving vehicles is **prohibited**. Refer to individual **SDZ's** and Range Safety Cards for specific locations where overhead fire is authorized.

b. Hand Grenades

(1) Before live grenade training begins, all personnel must be knowledgeable of and proficient in the safety precautions for handling and throwing live grenades. Additionally, all personnel must have successfully completed grenade training with practice grenades.

(2) Fragmentation hand grenades will be thrown from established barrier pits into dedicated impact areas. Once the safety pin has been pulled, the grenade must, on command, be thrown. Never attempt to reinsert the safety pin.

(3) When a grenade fails to function, the OIC of the firing will:

(a) Cease all grenade throwing at that throwing point, and clear that pit.

(b) Notify Range Control of the dud grenade and request EOD support.

(c) All pits must go **"Cold"** when EOD arrives. Ensure all personnel remain under cover until the dud has been cleared by EOD.

(d) Dud grenades will not be handled, moved, or destroyed except by EOD personnel.

(e) Notify Range Control when the dud is cleared and request to go "Hot" again.

(4) No live hand grenades will be handled or thrown from sunset to sunrise, during inclement weather, or under circumstances which may affect safe handling procedures.

(5) Only one grenade per pit will be thrown at a time.

c. Rifle Grenades and Grenade Launchers

(1) Live rifle grenades will be fired only from appropriate ranges. The OIC will ensure that only authorized cartridges are utilized.

(2) M79, M203, and **MK 19** 40mm grenade launchers may only be fired from appropriate ranges. Personnel will be instructed in the proper use and safety precautions for the weapon system prior to firing live rounds. HE grenades will be fired only into dedicated impact areas.

d. Rockets and Wire-Guided Munitions

(1) Rocket launched projectiles (SMAW, **LAAW**, AT-4, TOWS, and Dragons) will be fired only on authorized ranges and per this Manual, appropriate TM's, and unit **SOP's**.

(2) Before firing, the back-blast area will be cleared of personnel, material, and vegetation.

(3) All preparation for firing and unloading will be done on the firing line with muzzles pointed down range.

(4) Rockets or missiles will not be fired over the heads of personnel.

(5) Minimum range to impact will be per weapon system safety criteria and **MCO 3570.1**.

e. Mortars

(1) Mortars will be fired per **MCO 3571.1**, applicable TM's, publications, and applicable Range Safety Cards.

(2) Firing mortars over the heads of personnel is prohibited. Requests to fire from other than currently established sites will be handled on a case-by-case basis. Strict adherence to authorized **SDZ's**, ordnance charges, and azimuths of fire is required.

(3) Mortars will be fired only into designated impact areas. This includes the use of illumination rounds. Positive means to observe all impacts is required.

(4) Increments removed before firing will be placed in a metal or wooden covered container located at least 25 meters outside the firing position. Increments will be burned by the using unit at the end of each day's firing.

f. Artillery

(1) All units firing artillery aboard MCCDC will comply with **MCO P3570.1**, applicable unit SOP, **TM's** and applicable Range Safety Cards.

(2) Artillery will be fired only from designated, surveyed gun positions. Requests to fire from other areas or sites will be handled as special requests and must be approved by the Director, Operations Division. When requesting alternate firing positions, units must coordinate their requirements in sufficient time to accomplish surveys of the proposed firing positions.

(3) Artillery unit safety certification programs, to include specific artillery safety billets, will be in compliance with Chapter 11 of **MCO P3570.1A**.

(4) Increments removed from ammunition before firing will be placed in a metal or wooden covered container located at least 25 meters outside the firing position. Increments will be burned by the using unit at the end of each day's firing.

g. NBC Agents. Unit requests will indicate intended agent use, specifying time, type, and location.

(1) The use of smoke, flame, oxy-chlorobenzylmelonitrille (CS), or standard agent simulants are authorized for training purposes in unrestricted maneuver and **TA's**, subject to restrictions contained in applicable **FM/TM's** and **MCO P3570.1**.

(2) Chemical agents will be employed under the guidance of a school trained Nuclear, Biological and Chemical (NBC) officer or **SNCO** who understands the field behavior, individual protective equipment, and first aid requirements of such agents.

(3) Personnel will not be exposed to CS until they have been instructed in the use of the field protective mask and have completed a minimum of two masking drills. Field protective masks will be checked for serviceability prior to instruction.

(4) Units should ensure individual respiratory and cardiac fitness prior to exposure to CS. Personnel having severe facial acne, history of asthma, or serious respiratory or cardiac conditions should be referred to a medical officer prior to undergoing training.

(5) No agent may be used in training or field exercises when it may possibly drift downwind into civilian communities or areas

occupied by nonparticipating military units or installations. CS will be used no closer than 200 meters to vehicular traveled roads and highways.

(6) Because of the persistent nature of micro pulverized CS-1 particles, care must be taken not to contaminate areas and to protect wildlife from its effects.

(7) Smoke producing material will not **be** utilized when the wind velocity is greater than 15 knots, or within 1,200 meters of nonmilitary personnel, buildings, livestock, etc.

h. Tanks, Light Armored Vehicles (LAV's), Assault Amphibious Vehicles (AAV's)

(1) Tanks equipped with the **105mm** main gun and **LAV's** equipped with the 25mm chain gun are authorized to fire at designated ranges from designated firing positions.

(2) Although the commander of the unit is responsible for safety during all phases of firing, vehicle commanders are responsible for the firing and operation of their individually assigned vehicles.

(3) Tanks may fire the **105mm** main gun (see Appendix A), as well as M85 and M60 machineguns. When "**Hot**", tanks will display a red flag. When "**Cold**", a green flag will **be** displayed. Flags will be clearly visible to all personnel on the range.

(4) **LAV's** may only fire the 25mm chain gun, TOW, and 81mm mortar from positions authorized by the Director, Operations Division.

(5) **AAV's** may only fire the **M-85/MK-19** from positions authorized by the Director, Operations Division.

i. Fire and Maneuver

(1) Fire and maneuver will be conducted only on designated ranges unless a specific waiver is approved by the Director, Operations Division.

(2) Each OIC or RSO will be located so that all personnel under their control are within observation at all **times**. The RSO will be equipped with an appropriate signalling device to cease fire in the event of danger or emergency. Firing exercises conducted during darkness will require stricter control measures specifically provided by Range Control. During fire and maneuver exercises, an adequate number of **RSO's** will be assigned to ensure that every individual is positively controlled.

(3) Lanes and limits of fire for each firing point will be designated on each fire and maneuver exercise. The OIC will instruct firing personnel as **to** these **limits** and direction of fire.

12. Laser Operations

a. General Information. Operations of all lasers will be conducted in strict compliance with **MCO P3570.1** and SPARWARINST 5100.12. Laser safety procedures are established to prevent eye damage from viewing direct laser energy or reflections of laser energy by personnel. The Director, Operations Division will exercise control over all laser operations occurring at MCCDC and ensure that Operations Division has adequately trained personnel to enforce the provisions of this Manual by assigning a Training Branch representative to be certified per SPARWARINST 5100.12. Additionally, all Laser Systems Safety Officers (LSSO) will be certified through the Command Laser Safety Officer (LSO). Laser device usage and access of personnel to the laser range facilities will be controlled by the Director, Operations Division. If more than one type of laser device is used, protective measures must cover all devices. For devices with the same wavelengths, the highest required optical density will be used in safety equipment.

b. Range Control Procedures. The LSSO will ensure that the following conditions and procedures are adhered to regarding laser operations:

- (1) That a log book showing the date and time of all laser firing is maintained for a period of 35 years.
- (2) That the laser target and target area are kept free of specular reflectors (mirrors, glass, still water, etc.).
- (3) That range boundaries are posted to advise the public of the presence and hazards of laser operations.
- (4) That lasers are always pointed down range.
- (5) That all personnel in the immediate area of laser firing positions are behind the operator while lasers are in use. Laser eye protection is not required for laser operators or observation personnel viewing the target area with binoculars equipped with protective measures. Personnel will never enter into the beam path, its associated buffer, or the laser target area without appropriate laser eye protection.
- (6) That only authorized targets are designated or laser ranged.
- (7) That still water, flat glass, mirrors, glazed ice, plexiglass, or any other direct reflecting surfaces are not designated or ranged.
- (8) That aircraft or wildlife are not designated or ranged.

(9) That targets are positively identified under cross hairs of a scope or on the operator's monitor prior to activation of the laser. At no time will lasers be directed above the horizon.

(10) That laser operations cease if the operator or Range Control personnel are dissatisfied with target tracking.

(11) That laser operations cease when unprotected **and/or** unauthorized personnel enter the laser hazard area.

(12) That lasers will not be operated or used experimentally without being specifically authorized by the LSSO (guidance can be obtained from SPARWARINST 5100.12).

(13) That laser exit ports of all ground-based laser systems are covered by an opaque cover when the laser is located outside the range area or is not in use.

(14) That laser operations are stopped if water, snow, or ice begins pooling on the ground creating possible specular reflectors.

(15) That laser operators read this Manual before each operation and adhere to it at all times.

(16) That personnel immediately report to their supervisor any defective equipment, (e.g., misalignment of the laser beam with the pointing optics) or possible laser injury so that appropriate actions can be taken.

(17) That operations are permitted only on laser approved ranges, established per SPARWARINST 5100.12. Those ranges and types of lasers that may be used are detailed in separate laser range information packages that are available from Range Control.

(18) That two way communication is maintained between the laser system operators and all affected range personnel.

(19) That a permission brief for all participating personnel is conducted prior to laser operations. The briefing shall include as a minimum:

(a) Maps depicting the targets and target areas and their laser hazard area.

(b) Drawings or photographs of the targets to be utilized.

(c) Permissible Firing Fans (Ground-Based Laser Operations).

(20) That select Range Control personnel receive training equal to that of the Laser Range Safety Officers (LRSO).

(21) That class 3 and 4 laser systems are not directed above the horizon unless coordinated with **DoD** components, including the **NORAD** Clearing House, Cheyenne Mountain Autovon 834-1211, extension 3290.

c. Using Unit Responsibilities. **CO's** of units and organizations desiring to utilize lasers on MCCDC ranges and who have lasers on their Tables of Equipment will:

(1) Designate an individual by name and billet as the **LSSO**. The LSSO shall have direct access to the CO and possess sufficient technical experience and authority to approve or disapprove the request for use of lasers. The LSSO will:

(a) Receive laser safety training by successfully completing an appropriate LSSO course at NAVSEA approved safety school. Equivalent training may be approved at **SPAWAR**. Refresher training shall be obtained periodically if technical training is not used within one year of training.

(b) Ensure that each laser is classified and labeled prior to use according to SPARWARINST 5100.12.

(c) Determine radiation wavelengths, energy and power levels, and optical densities of eyewear needed to provide protection under both unaided and optically aided viewing.

(d) Maintain and submit to the LSO, Public Safety Division, Quantico (C 272), all necessary records required by SPARWARINST 5100.12 and other government regulations.

(e) Establish a medical surveillance program as required by NAVMEDCOMINST 6470.2.

(f) Report laser radiation incidents to the RCO.

(g) Conduct a Laser Safety Survey of the unit at least annually and conduct hazard evaluations whenever needed to ensure hazard control.

(h) Request ranges for laser use from the Director, Operations Division.

(i) Establish and publish unit laser safety regulations for operations and maintenance that are in conformance with references **MCO P3570.1**, SPARWARINST 5100.12, and this Manual.

(2) Designate an LRSO who will ensure the safe operation of lasers aboard MCCDC. The LRSO will be assigned in writing and certified at the same level as **LSSO's** to do the following:

(a) Ensure familiarity with: **MCO P3570.1**; Chapter 19, paragraph **5c** of SPARWARINST **5100.12A**; and FM/TM's applicable to particular laser devices being used.

(b) Brief unit personnel who operate laser devices, to include an explanation of laser related hazards and safety features.

(c) Know the location, elevation, firing position, elevation, and azimuth of the target to be used.

(d) Ensure protective eyewear is used when required.

(e) Ensure compliance with this Manual and unit **SOP's** for laser operations and training.

(f) Terminate laser operations immediately if positive control of the laser beam is lost.

(g) Ensure that laser operations are conducted per **MCO 3570.1A**, Chapter 19.

(h) Ensure the lasing of manned targets is permitted only when the following criteria are met:

1 Written authorization has been received from the Commanding General, **MCCDC (C 03)**.

2 The **LRSO** has verification from target personnel that proper eye protection is being used.

3 That all personnel have been briefed on the consequences of not using laser eye protection,

4 Positive, continuous communication is established with the personnel in the target area during each laser firing and permission to fire is received from the **LRSO**.

5 The safety requirements of the specific laser weapon system have been met.

3201. TRAINING AREAS

1. Check In and Check Out Procedures

a. The **OIC** is required to physically check out the scheduled training area (TA) from Range Control for non-firing/blank-firing evolutions on the day of the evolution (unless the area is available and not being used by other agencies) and to check in at the completion of the evolution. Hiking routes and tracked vehicle routes must be checked out prior to use.

b. A Training Area Utilization Form must be filled out prior to commencing the exercise.

c. Two way radio contact with Range Control, and where possible telephone communication, must be established prior to and during the field exercise. Communication checks must occur at a minimum of every three hours while conducting non-firing or blank-firing field training.

d. When securing from a TA, it is necessary to notify Range Control either physically or by radio/telephone. Any petroleum spillage will be reported in writing to Range Control in order to effect proper hazardous waste removal procedures (any use of petroleum products in the **TA's/ranges** must have been included in the training area request).

➔ "e. Officer Candidates School (**OCS**) has priority of use in **TA's** 2, 3, and 4. Use of these **TA's** will be scheduled via Operations Division, MCCDC. In order to maintain flexibility and **attain** maximum usage of **TA's** 2, 3, and 4, it is permissible to schedule outside agencies to these areas with the concurrence of and coordination with the S-3, OCS. The OCS, S-3 (during working hours) or the OCS, Officer of the Day (OOD) (after working hours) will maintain the keys to the locks for the gates in these **TA's**. The OCS, S-3, or OOD will contact Range Control telephonically to checkout and check-in units to these **TA's**. The OIC conducting field training in these **TA's** will establish and maintain radio contact with the OCS, S-3 or OOD. The OIC of training will report, in person to OCS, S-3 or OOD prior to and after conducting training."

➔

2. **LZ's**. **LZ's** and **DZ's** are listed in Appendix B. Requests for **TA's** normally include all facilities within the entire TA, such as mess areas or **LZs**. If a unit wishes to utilize a LZ within a TA scheduled by another unit, it must coordinate with both the scheduled unit and the Director, Operations Division. If an aviation unit has pre-scheduled **LZ's** within a particular area, then ground units conducting training within that area should avoid these scheduled **LZ's**.

3. Off Limits and Restricted Access Areas

a. All training will avoid dependent and civilian housing areas.'

b. Cemeteries and burial plots will be avoided. Exercises will be planned to bypass all such areas by at least 50 meters.

c. No training will be conducted within 500 meters of **Lunga** Reservoir, Breckinridge Reservoir or Dalton's Pond without clearance

from the Director, Operations Division. Vegetation within these areas will not be disturbed. Weapons will be fired in such a manner that projectiles will not impact within 500 meters of these areas.

d. The impact area for the Calvin A. Lloyd Rifle Range will not be entered without the prior approval of the CO, Weapons Training Battalion (**WTBn**) and the Director, Operations Division.

e. Explosive Ordnance Disposal (EOD) area: coordinates 879646.

f. USAF radio transmitter site: coordinates 862779.

g. Ammunition Supply Area: **gridsquare** 9165.

h. Areas at coordinates 880646, 927644 and 768722.

i. **"C"** Demo area: coordinates 893655 (unless scheduled).

j. Camp Goettge: coordinates 773723 (unless scheduled).

k. FBI ranges: coordinates 866676.

l. Combat Village: coordinates 863750 (unless scheduled).

m. Murphy Demo area: coordinates 859654 (unless scheduled).

n. Camp Upshur and **TA's** 2, 3, and 4 (unless scheduled).

o. Defense Reutilization and Marketing Office area: coordinates 888663.

p. Environmentally "sensitive" areas which may be designated periodically by Forestry or Training Branch (i.e., wet-lands, newly planted tree plots, endangered species, etc.).

q. All dud impact areas.

r. Dalton's Pond.

4. TA/Range Restrictions

a. No training or troop activity will be scheduled where troops are **required** to be on roadways or roadway shoulders east of I-95 during peak traffic periods. When foot marches are conducted in the immediate vicinity of roadways, traffic guards with reflective vests will be placed approximately 50 meters in the front of and rear of the column to slow oncoming traffic. During night marches, traffic guards will use lights or lanterns to control traffic. Routes and overlays should be included in the initial request for training areas. Foot marches conducted in the vicinity of **mainside** roadways must be coordinated with and approved by the Provost Marshal prior to submitting a request to the Director, Operations Division.

b. Demolition charges will not be fired when damage to civilian property is likely to occur.

c. During all live-fire exercises, the **SDZ's**, as shown on the Training Area and Range Schedule overlays, will become restricted areas. An updated schedule will be displayed at the Range Control for any last minute changes. Using units must acknowledge all changes prior to utilizing a range or TA. This schedule is final approval for all TA requests. Deviations from this schedule are strictly prohibited unless requested and approved in writing. All using units requesting deviations must review the schedule to ensure their requirements are accurately reflected.

d. All live-firing will be conducted between 0600 and 2200, unless other times are specifically requested and approved. During daylight savings time, hours may be extended up to 2400 if approved by the Director, Operations Division. While this restriction includes all ordnance utilized to enhance training, it does not include blanks and pyrotechnics. Exceptions will be considered on a case-by-case basis by the Director, Operations Division.

e. Unauthorized entry by any persons, at any time, into MCCDC explosive ordnance impact areas is strictly prohibited. Range Control may authorize exceptional entry into impact areas if accompanied by a qualified EOD technician. Due to the dangers of unexploded ordnance in these areas, digging of any type in impact areas is prohibited.

f. **Ranges/TA's** may not be modified or altered without written approval from the Commanding General, MCCDC (C 03).

5. Environmental Considerations. The following acts are strictly prohibited on any ranges or **TA's** aboard MCCDC:

a. Burying, dumping, or otherwise disposing of trash, rubbish, or garbage except at established landfills.

b. Burying, dumping, or otherwise disposing of any type of explosive material, pyrotechnic, chemical ammunition, or any type of hazardous waste.

c. Live-fire in any area not approved in writing on the weekly Training Area and Range Schedule. The Game Checking Station (GCS) may authorize hunting.

d. The draining, dumping or spilling onto the ground or into the water of oil, fuel, or any other chemical from any vehicle, or other machinery, or from any container. All spills must be reported immediately to Range Control in order to expedite waste clean up and disposal. The tactical use of any petroleum product in Molotov cocktails, smoke generators, bombs, incendiaries, etc., must be approved in writing by the Director, Operations Division prior to use.

e. Removal or intentional destruction of trees, brush, or any other vegetation, without approval from the Director, Operations Division. Cutting or otherwise removing tree limbs is also prohibited. Minimal use of live vegetation for camouflage purposes is authorized.

f. Killing, injuring, or harassing wildlife. Wildlife may be killed only under circumstances which constitute an immediate, bonafide threat to human life or per hunting regulations.

g. No ordnance filled with phosphorus or toxic agents will be deliberately fired or dropped into rivers, lakes, creeks, or other bodies of water in or adjacent to MCCDC.

6. Tracked Vehicles

a. Tracked vehicles will cross hard surface roads only at designated crossings unless alternate crossing sites are approved in advance by the Director, Operations Division. Units will use road guards to stop traffic in both directions. Once the crossing has been made, the unit will police any debris left on the road to prevent traffic hazards.

b. The senior tracked vehicle representative will check in with Range Control prior to departing for any range or TA, and request permission to transit the area, confirming their route as depicted on the schedule overlay. When entering **TA's**, tracked vehicles are restricted to the use of designated tank trails and roads.

7. Engineer Training. Use of engineer assets will be included in the Training Area Request and will describe the type of training (i.e., obstacles, emplacements, tank traps/cribs, wire barriers, materials to be used, etc). All engineer training will be performed with the understanding that areas must be returned to their original state. Additional guidance from Range Control may be obtained by advanced coordination. The following restrictions apply:

a. All environmental restrictions will be in effect. There will be no heavy equipment or obstacles placed in restricted areas, on hard surface roads, gravel roads, or within 50 feet of a culvert.

b. All affected areas should be policed within 24 hours after the exercise is completed.

c. Any tactical roadblocks such as practice mines, trees, concertina wire, etc., must allow for nontraining/tactical vehicles to freely access **TA's**. Units will provide a roadblock guard in order to remove any obstacles from roads. Units may replace obstacles after vehicles pass.

d. Units desiring to construct permanent structures must coordinate with and receive permission from the Director, Facilities Division, via the Director, Operations Division.

8. Civilians and **Military** Dependents

a. Civilian use of MCCDC **TA's** is permitted on a limited basis per **MCO P5720.60**. MCCDC support will be limited to providing terrain or a facility for the organization to conduct its activity and to allowing visitors to observe routinely conducted unclassified training. Facilities or instruction involving weapons training/testing, or paramilitary/combat type activities will not be provided. Civilian use of MCCDC facilities will be dependent on safety considerations and Marine Corps interests.

b. **WTBn** ranges **may** be requested by Armed Forces and civilian agencies. The Director, Operations Division will effect the requested support and taskings with the Commanding Officer, Weapons Training Battalion, **via** the Deputy Commander, Training and Education. Safety and instructor personnel must be duly certified and properly approved in writing by the Commanding Officer, Weapons Training Battalion. Target materials may be provided if replaced in-kind.

c. Prior to any visit or training approval, civilian organizations or individuals must provide proof of insurance to protect government interests: submit an Indemnification Agreement for the group; and submit a Hold Harmless Agreement for each participant. When small arms matches are covered by National Rifle Association insurance or during recreational firing, when MCCDC Shooting Club insurance is provided, proof of insurance is not required.

d. Civilian organizations requesting use of **TA's**, ranges, or adjacent recreation areas must receive appropriate Range Control and EOD briefs; must provide sufficient, competent leadership and supervision to preclude personnel from wandering into impact areas or live-fire ranges; must maintain strict personnel accountability at all times; and must provide a designated safety vehicle. Continuous communication capability is also required, depending on the training facility involved.

e. Request for authorization for civilians or military dependents to observe training aboard MCCDC will be submitted via the Director, Operations Division. The request should include: number of civilians and military dependents expected and certification that a release of liability has been obtained. The host **unit's** RSO is responsible for all necessary safety precautions if non-military personnel are involved in the firing of weapons (e.g., Jane Wayne Day).

f. Individuals seeking access to **TA's** for the purpose of woodcutting, scouting, etc., must first check in with Range Control prior to departing for the area they wish to utilize. When departing the area, individuals must either call **or** physically check out with Range Control. Failure to do so will result in future access privileges being revoked.

g. Wood cutting and gathering firewood is limited to already fallen trees. A permit, available at GCS, is required.

9. Climatic Conditions. Heat/cold casualties, preventive measures, and related issues are covered in detail by **MCO** 6200.1 and BSO 1550.20. The Director, Operations Division will monitor and disseminate all heat stress flag conditions, fire and storm conditions, and all other pertinent information to appropriate activities.

10. Fires on the Range and TA's

a. When a brush fire starts on a range or in a TA, the OIC will immediately:

(1) Cease fire and curtail training as required by the nature and extent of the fire.

(2) Report the fire by the most expeditious means to **Range Control**.

(3) Use as many personnel involved with the training exercise as necessary to extinguish the fire without entering an impact area or placing individuals in a hazardous situation.

b. The RCO will dispatch a pumper truck and additional equipment to the area as requested by the OIC.

c. If fire conditions require the presence of the MCCDC, Fire Department, Range Control will be notified and will coordinate between the on sight unit and MCCDC, Fire Department. The Fire Chief, or designated representative, will assume control of all personnel and equipment upon arrival.

d. If the fire is extinguished by personnel and equipment on hand, the OIC will notify Range Control.

e. Training will resume at the discretion of Range Control, based on the recommendation of the OIC.

3202. TRESPASSING

1. The RCO and all using units will take precautions to ensure:

a. No unauthorized persons enter the **SDZ** before firing.

b. No trespassers are on ranges or in **TA's** particularly during firing.

2. Personnel must obtain permission from the RCO before entering **TA's** 1, 5 through 17; and from OCS, **S-3/OOD** before entering **TA's** 2, 3, or 4.

3. Persons who enter TA's without authority or who violate laws or regulations while in the TA's will be turned over to the Game Warden for violations of hunting or PMO for violations of Command regulations or Federal and State laws.

4. Unless scheduled, no person shall depart from a hard surface road within the TA's without first receiving permission from the RCO or designated representative.

3203. HUNTING, FISHING, AND OUTDOOR RECREATION

➔ 1. MCCDCO P11015.2 establishes regulations governing hunting, fishing, trapping, and other wildlife related outdoor recreational opportunities at MCCDC. Access to training areas for these activities is strictly controlled and determined daily depending upon the location of range firing exercises and the locations of other scheduled land use activities. Recreational users are normally given access to training areas when there are no scheduled activities within that area and no active SDZ's impinge upon the area.

2. Anyone who hunts or fishes aboard MCCDC must have the licenses required by Federal and State Laws. Each hunter or fisherman must have a MCCDC privilege card which is effective for the same period as the Virginia hunting or fishing license. Additionally, all hunters must attend a hunter safety indoctrination class conducted by the GCS.

➔ 3. The MCCDC GCS controls hunting and fishing privilege cards, The GCS is located on MCB 4 at grid point 914653 (bldg., 5-9; telephone 640-5329). Hours of operation are from 0530 to one hour after sunset during the fall hunting season, and from 0500-1300 during the spring turkey hunting season. Regular hours are 0800-1600.

4. Lunga Reservoir Office (bldg 27500, telephone 640-5270) also issues MCCDC fishing privilege cards. Hours of operation are from 1000-2000, on Wednesday-Friday; from 0600-2000, on Saturdays and holidays; and from 1200-2000 on Sundays. The office is closed on Mondays and Tuesdays.

5. For more information and specific details concerning hunter safety classes (check-in/checkout procedures, etc.) call the GCS.

6. Access to TA's for recreational activities such as bird watching, hiking, scouting, or nature study is permitted when there will be no conflicts with scheduled training activities. All requests for recreational activities in MCCDC TA's will be directed to the Commanding General, MCCDC (C 03) for written approval and instructions.

7. Per MCCDCO **P5100.1** no recreational swimming is allowed in any MCCDC waters which include: Dalton's Pond, R-6 Pond, **Lunga** Reservoir, Aquia Reservoir, Chopowamsic Creek, Breckinridge Reservoir, any other creeks, streams, or water areas.

➔ 8. Per MCCDCO **P11015.2**, official command guest hunters and their designated escorts may **be** allowed to hunt in a training area which has an active SDZ impinging upon a portion of the training area. Hunting may only be conducted in the portion of the training area which is clear of the SDZ, and must be done in strict accordance with the guest hunting rules and procedures published in MCCDCO **P11015.2**.

3204. PRIVATELY OWNED VEHICLES (POV)

1. POV's are authorized within **TA's** as transportation for specific range exercises, classes, etc. as coordinated by the OIC/RSO. For nonscheduled events such as a TA reconnaissance, it is necessary for the driver of the vehicle to check in with Range Control and receive specific authorization prior to departing for a particular **range** or TA.

2. In no instance will a POV block access to a range. Unrestricted **access** must be maintained for safety and medical evacuation considerations. Operation of POV's as transportation to or from training is authorized at the risk of the owner/operator.

3. POV's will not be authorized in hunting areas or active **TA's** except as authorized by GCS or Range Control.

➔ 4. POV's may only operate on roads open to normal vehicular traffic. Off-road travel in POV's is strictly prohibited. The only exception is for guest hunting coordinators and guests in designated guest hunting areas. Violators are subject to administrative action, to include towing or traffic citations. Recreational four-wheeling is prohibited in all MCCDC **TA's**.

3205. POLICE OF RANGES AND TRAINING AREAS

1. Police of training facilities, ranges, and **TA's** is the responsibility of the using unit.

2. Before securing from a TA or range, each unit will conduct a thorough police call and remove all trash to a proper receptacle. Special attention will be given to the removal of SAW ammunition drums and communication wire from the **TA's** and ranges. Trash (to include ammo crates) will not be burned or buried, and any fighting holes, earthworks, etc., constructed in **TA's** must be dismantled and the area(s) returned to its natural/original condition. **RANGES/TA's MAY NOT BE MODIFIED. CONSTRUCTED. OR ALTERED IN ANY FORM, WITHOUT PRIOR WRITTEN APPROVAL FROM THE COMMANDING GENERAL, MCCDC (C 03).**

3. At no time will lumber be placed in any dumpster. Lumber must be taken to the dump site located at grid 887662 along MCB 2. Metal may be placed only in dumpsters marked "METAL ONLY."
4. Ordnance items (ammo boxes, spent brass, etc.) will be returned to the Defense Reutilization and Marketing Office, Quantico or Fort Belvoir, unless previous arrangements have been coordinated with the MCCDC, Ammunition Supply Point (ASP). The collection of spent brass is not required when ammo is expended from aircraft-mounted weapons, over extended terrain or otherwise inaccessible areas such as impact areas.
5. The OIC will contact the Range Control at least 30 minutes prior to completion of the police call. Range Control inspection



personnel will proceed to the area to conduct a final inspection. If light conditions preclude a final inspection or if range personnel are unavailable to respond in a reasonable amount of time, the area will be inspected as soon as conditions allow. Units will remain accountable, even though allowed to leave prior to the final inspection.

6. A supplemental area police program is available on a continuing basis (Monday through Friday, holidays excluded). If a unit desires to utilize this capability, arrangements must be made with the Command Correctional Facility. The unit must provide all logistics (to include rations) and support as specified below:

a. The police detail will consist of the following personnel and equipment, which must be provided by the unit utilizing the prisoners.

- (1) A police detail NCOIC.
- (2) One prison chaser for every five prisoners.
- (3) One covered vehicle and a driver.

b. Special Instructions:

(1) The NCOIC of the police detail will report to Range Control by 0630 each working day for instructions and the necessary tools to accomplish the day's assignments.

(2) Prison chasers and vehicle operators will report by 0700 each day to the NCOIC of the range police detail at Range Control.

(3) The NCOIC will form his work detail at the Command Correctional Facility and proceed with the police of the assigned ranges, reporting back to Range Control when the assignment has been completed, or by 1600.

7. Training Facilities Discrepancy Reports

a. Annual maintenance inspections of all training facilities will be conducted concurrently by the Director, Facilities Division and the Director, Operations Division.

b. Periodic inspections of **TA's** and range facilities will be conducted by the RCO to ensure effective and timely police, maintenance, and adherence to safety/range regulations. All work requests for TA and range maintenance will be submitted and managed by the Director, Operations Division.

c. Unit commanders, **OIC's**, **RSO's**, and their representatives will report discrepancies in the safe use, police, and required maintenance of training facilities to Range Control.

3206. AIRSPACE

1. To satisfy the range requirements of MCCDC while protecting aircraft from damage or destruction from live-firing, appropriate airspace control measures have been coordinated and established with the FAA. The CG, COMCABEAST is the regional airspace coordinator for MCCDC airspace planning. R-6608 has been established as a joint-use restricted airspace extending from earth's surface to 10,000 feet above sea level over MCCDC **TA's**.

a. Three Military Operating Areas (**MOA's**) have also been established to provide additional aircraft maneuver area. R-6608 and the DEMO **MOA's** are listed in Flight Information Planning (FLIP) documents and are depicted in the FLIP high and low altitude **enroute** charts. Figure 3-1 depicts the restricted areas and the **TA's**. Figure 3-2 depicts the DEMO **MOA's** relationship to the restricted areas.

b. The controlling authority for R-6608 is Dulles International Airport and the using agency is MCCDC. Scheduling of airspace is controlled by the Director, Operations Division and is coordinated with the Federal Aviation Administration (FAA) by the MCAF, Air Operations Officer per the weekly Training Area and Range Schedule. Most **helo LZ's** are located in Area A, fixed-wing ordnance is dropped into impact areas west of **Lunga** Reservoir in Area B. Small arms marksmanship ranges are in Area C, which functions as a north/south corridor.

2. Check In/Check Out Procedures. When MCCDC airspace is scheduled with the FAA, Range Control becomes the controlling authority for all aircraft entering the airspace. All aircraft must receive specific approval from Range Control prior to entering the MCCDC restricted airspace (call sign - "Pierced Reefer"; FM 38.70; UHF 328.40). Range Control will provide a current operations brief, Forward Air Controller (FAC) frequencies, call signs, and approve entry into the restricted airspace. Aircraft not working with a FAC must check in with Range Control every 30 minutes to confirm their status. **FAC's** should include aircraft status in their normal radio checks with Range Control. All aircraft are required to notify Range Control when departing the airspace. **FAC's** should also confirm with Range Control that participating aircraft have departed. Aircraft sorties not scheduled on the weekly Training Area and Range Schedule must notify Range Control of their requirements to enter the restricted airspace and hold outside the area until entry approval is coordinated. HMX-1 flight requirements within the restricted area must be approved by either Head, Training Branch, Operations Division or Range Control prior to the proposed flight.

3. Routing. The restricted airspace is divided into three sectors; R-6608 Alpha, R-6608 Bravo, and R-6608 Charlie and is augmented by three military operating areas (**DEM01**, **DEM02**, and **DEM03**). **Fixed-wing** aircraft will be routed around firing positions, **"Hot"**

positions, **"Hot"** ranges/sectors, and indirect fire weapon's gun target line (GTL). Range Control will direct fixed-wing aircraft to FAC and inform **aircrews** of all **"Hot"** ranges or sectors **and** other air traffic in the restricted airspace. To safely allow concurrent air operations, and indirect firing, aircraft will approach no closer than 1000 meters from **GTL's**.

4. Forward Arming and Refueling Points (FARP). Ranges 5 and 14 have been designated as **FARP's**. All pertinent Orders and **FM/TM's** **apply**. Any unit that desires to utilize these ranges as **FARP's** must specifically request them for that purpose, as well as submit overlays for each weapons system being armed. Necessary grounding points are located at Range 5.

TRAINING AREA AND RANGE SOP

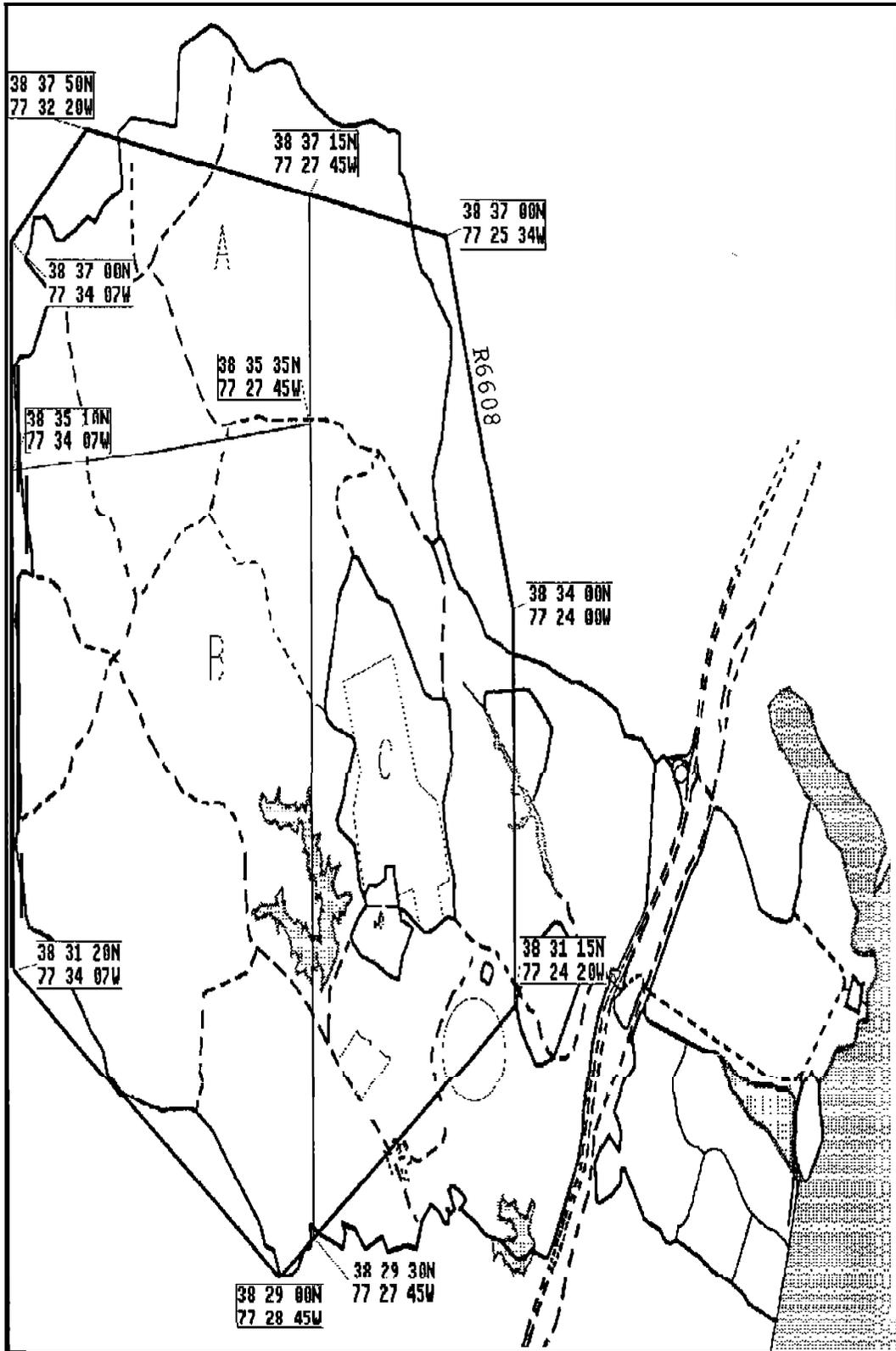


Figure 3-1.--MCCDC Joint Use Restricted Airspace.

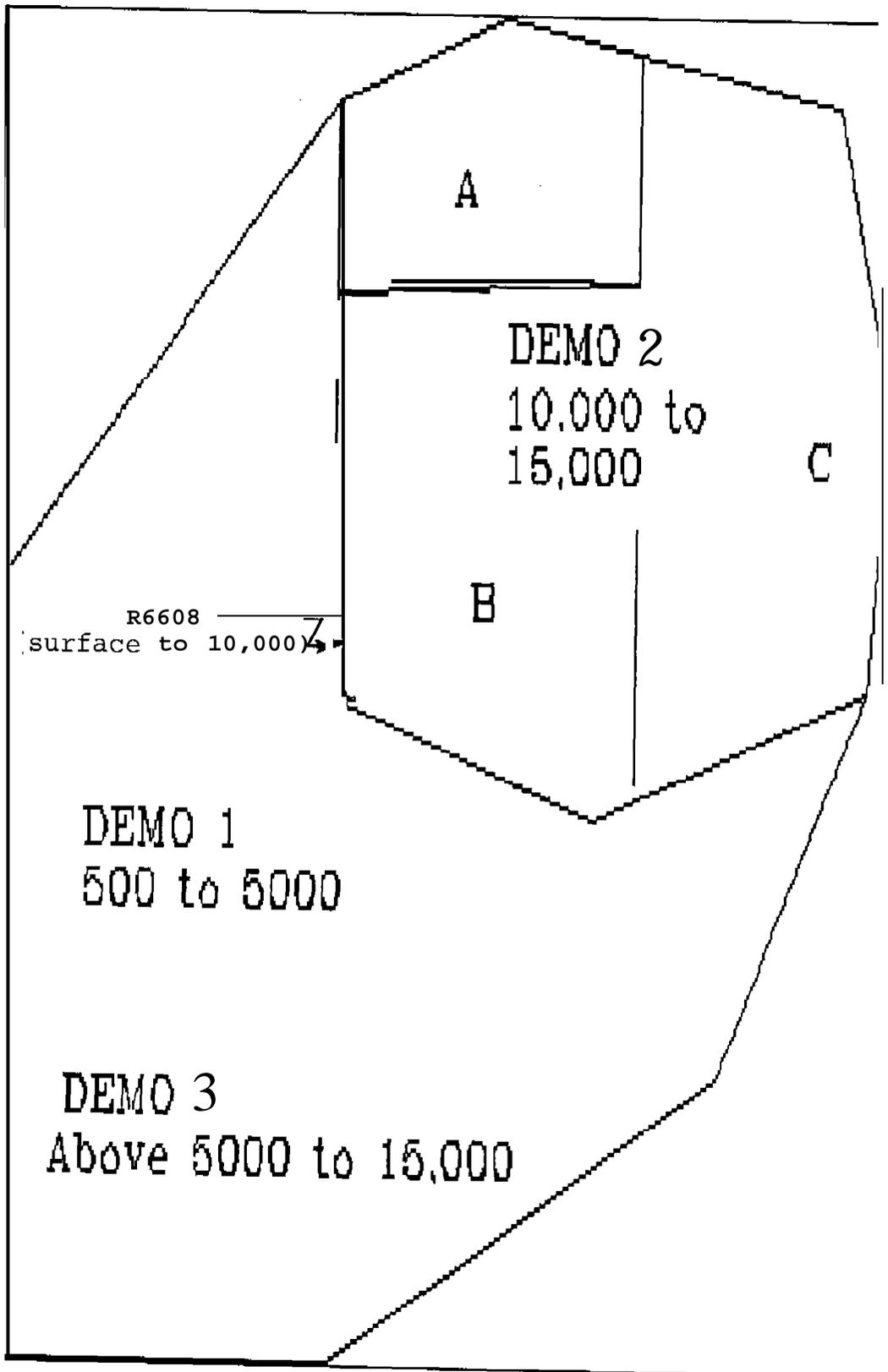


Figure 3-2.--Demo Military Operating Areas

AIRSPACE CONTROL POINT

TRAINING AREA AND RANGE SOP

POINT	DESCRIPTION	GRID COORDINATE	RADIAL/DME FROM BROOKE VORTAC	LAT/LONG
ALPHA	Finger extending into Aquia Reservoir	903627	353/10.0 NM	38 29'25"N 77 24'15"W
BRAVO	Spillway at Breckinridge Reservoir	915678	360/12.5 NM	38 32'15"N 77 23'30"W
CHARLIE	Combat Village Concrete Buildings	863750	351/17 NM	38 36'0"N 77 27'15"W
LIMA	Spillway at Lunga Reservoir	854665	343/12.5 NM	38 31'25"N 77 27'40"W
ROMEO	Red and White Tower with Silver Building	879728	353/15.5 NM	38 34'50"N 77 26'0"W
SIERRA	Southern Finger of Lunga Reservoir	830674	339/13.5 NM	38 31;50"N 77 29'20"W
TANGO	The Basic School	871639	345/11.0 NM	38 30'0"N 77 26'30"W
UNIFORM	Camp Upshur	801783	343/20 NM	38 37'40"N 77 31'35"W
WHISKEY	Northern Finger of Lunga Reservoir	833690	341/14.5 NM	38 32'40"N 77 29'10"W
XRAY	Davids Crossroads White Tower	7907	335/16.5 NM	38 33'45"N 77 32'10"W
ZULU	Northern Tip of Lake Arrowhead	780648	326/14 NM	38 30'20"N 77 38'45"W

Table 3-2. --Airspace Control Points

5. Radar Significant Checkpoints

CHECKPOINT	LATITUDE	LONGITUDE	ALTITUDE
SPILLWAY AT LUNGA	N3831.3	W7727.8	288 FT
TBS	N3830.0	W7726.4	270 FT
R-7 CP	N3839.9	W7732.0	340 FT
RR BRIDGE AT MCAF	N3831.2	W7718.7	10 FT
COMMISSARY	N3830.2	W7721.0	20 FT
POINT EAST OF MCAF	N3830.2	W7718.0	0 FT
TGT 1	N3831.9	w7731.5	410 FT

Table 3-3.--Radar Significant Checkpoints

6. Coordination and Control

a. Forward Air Controlling

(1) Aircraft participating in live-fire operations, bombing, live or simulated close air support (CAS), **DZ's**, or combined air-ground exercise require positive control by a FAC.

(2) After contacting Range Control but prior to entering R-6608, the aircraft will be directed to switch to the frequency of its assigned FAC. If possible the aircraft will monitor one of Range Control's safety frequencies (FM 38.70 or UHF 328.40).

(3) Upon completing the mission and released by the FAC, aircraft will notify Range Control upon departing the area.

(4) Simulated CAS missions into any range area will remain clear of adjacent **"Hot"** ranges, impact areas, or **TA's**.

(5) Aircraft flying over the ASP (coordinates 911659, 914656, 916666, and 918665) are required to maintain a minimum of 1000 above ground level (AGL). Minimum altitude for aircraft overflying residential areas is 1500 feet AGL.

(6) No more than one fixed wing mission, with the exception of related firing operations, will be allowed into the restricted airspace at one time.

(7) Flights within MCCDC airspace require visual meteorological conditions (VMC) with helicopters operating minimums of **1000' ceiling** and 3 miles visibility. Fixed wing require **3000'**

ceiling (5000' with ordnance) and 5 miles visibility, unless unit minimums are more restrictive. Visual flight rules apply. CAS missions into TA-9 impact area require VMC and will be per weather directives at the Wing, Group or Squadron, whichever is more restrictive. For the purpose of determining current weather within the restricted airspace, ceiling and visibility measurements will be obtained from the CO, MCAF, Weather Service.

b. LZ's and DZ's

(1) LZ's. All aircraft LZ's must be specifically approved by the Director, Operations Division for aircraft type and number to ensure safe aircraft operating capabilities, rotor blade clearance, foreign object damage (FOD) probabilities, zone obstruction clearance, etc. Aircraft will land only at approved zones. See appendix B for location of authorized LZ's.

(2) DZ's. DZ exercises are only authorized within 200 meters of DZ's Redwing, Camp Upshur, Pheasant, Sawmill, and Cockatoo.

(3) Zone Control. Whenever a landing zone (LZ) is being used for multiple helo lifts or parachute operations, a LZ/DZ Control will be established in the zone. Those duties include but are not limited to the following:

(a) Executing the duties normally associated with FAC/OIC of firing, to include any necessary advanced coordination with Range Control.

(b) Checking in with Range Control at the commencement of operations and every hour thereafter until the operation is complete.

c. Helicopter Rose Suspension Training (HRST). All HRST exercises will be conducted according to the using unit's SOP, all appropriate FM/TM's, and NAVAIR/NATOPS safety procedures.

7. Special Instructions and Restrictions

a. Helicopter live-firing will engage targets in the center of the impact area. All targets will be clearly marked. Aircraft which utilize lateral weapons engagement will be routed by the FAC so as to present no hazard to ground troops.

b. Before firing any weapon under conditions in which the maximum ordinate of fire will exceed 45 meters AGL, the aircraft commander will follow the procedures in AR 95-50.

c. For safety, the number of controlled firing areas will be held to one. The safety procedures to be followed when using

controlled firing areas are stipulated by the FAA in the agreement that established the area. The procedures will include all of the safety measures listed below:

(1) Conduct firing with at least 5 miles of **visibility** in all directions from the fire control point and a ceiling of 1,000 feet in excess of the maximum ordinate of fire.

(2) Cease firing if the projectile will enter any cloud formation.

(3) Maintain visual surveillance of the entire trajectory and target areas.

(4) Provide **FAC's** who will have continuous and efficient communication with all aircraft, and safety officers who are in direct communication with all firing positions.

(5) Provide a RSO to insure that hazardous firing has ceased when aircraft are approaching the area.

(6) The only authorized air munitions targets in the impact areas are M-47 tanks with orange turrets. For the specific location of the air munitions impact point, see Table 2-6.

8. Aircraft Accidents

a. Range Control will be immediately notified and provided information concerning the type of aircraft, number of aircraft involved, personnel involved, location, aircraft ordnance, and the name, rank, unit/organization and location of the unit calling.

b. Range Control will notify the following:

(1) Airfield Crash/Rescue Section **2571/2312**.

(2) MCCDC Fire Department **911/2222**.

(3) Provost Marshal's Office 2251.

(4) Naval Medical Clinic 2525.

(5) Operations Division **3420/3421**.

(6) MCCDC, Command Duty Officer (after working hours) 2707.

(7) EOD **5204/5314** (pending ordnance).

3207. WATER OPERATIONS

1. Check In/Check Out Procedures. Water areas will be checked out from Range Control in the same manner as **TA's**. MCCDC water areas are defined as **Lunga** Reservoir, Dalton's Pond, Breckinridge Reservoir, sections of Aquia Reservoir, and the Potomac River bordering MCCDC.

2. Safety Officer. Organizational commanders conducting training involving the use of small boats or other watercraft will assign a safety officer in writing. The safety officer will be thoroughly familiar with safety regulations and will ensure all participants are briefed on the safety regulations prior to training. The safety officer will consult with the CO, MCAF, Weather Station and the MCCDC, Harbor Master, with regard to adverse weather and open water conditions. The safety officer will also conduct a physical inspection of the training environment and equipment and will ensure potentially hazardous situations or unsafe conditions are rectified prior to commencing training. If unsafe situations exist, the evolution will be suspended, or modified as necessary. Prompt notification of training changes will be made to the MCCDC, Harbor Master as well as the unit's operations officer.

3. Safety Rules

a. Swimming and First Aid Classes. All personnel scheduled for water related training will attend a swimming and first aid class to be established by the unit commanding officer prior to conducting training involving small boats or open water operations. Subjects to be covered include, but are not limited to:

(1) A swimming test of all participants to determine their proficiency. All personnel associated with the application and conduct of open water or small boat training must be qualified swimmers. Nonswimmers will not be eligible for open water or small boat operations.

(2) Certifiable instruction in water safety, to include life sustaining and life saving techniques.

(3) The establishment of an emergency arm and hand signal system to be used between the training craft and the safety boat, in case radio communications malfunction.

b. Physical Condition. Prior to water entry, all participants will be questioned as to their general physical condition and health to determine any limiting factors which may prove to be a handicap in the event of an emergency.

c. Life Vests. All personnel involved with training in small inflatable boats, or similar raid training water craft will wear either Navy or United States Coast Guard (USCG) approved

serviceable Type I life vests, B5 yoke type life preservers used in AAV operations, or Navy standard buoyancy compensators. They will have lighting devices and whistles for night operations. Personnel will be thoroughly trained in the proper use of this equipment. Individual loads will be rigged or adjusted for easy release in open water conditions and will not exceed the buoyancy limits of safety equipment worn.

d. Safety Boat And Crew

(1) The training craft and personnel will be under constant visual observation by a safety boat. Personnel will be accounted for at all times.

(2) A motorized safety boat with shallow draft and relatively stable platform is required for every five IBS or raid assault boats. The safety boat must be of sufficient size or there must be enough safety boats, to accommodate all safety personnel and all members of the training craft. The safety boat must have search light capability and radio communication with the tactical unit in training.

(3) In addition to a qualified operator on the safety boat, there must be two water safety swimmers in wet suits with neutral buoyancy equipment. Additionally, fins, masks, appropriate lighting devices, and whistles must be attached to their buoyancy compensators. Safety swimmers must be currently schooled in water survival, water safety qualified (WSQ) level, and have a working knowledge of life saving techniques.

4. Weather Parameters. Small boat and IBS training will not be conducted in adverse weather on open water beyond force five wind on the **Beaufort** Wind Force Scale (17 Knots) and waves beyond three feet high. Raid/assault boat routes will **avoid** high current and high traffic areas adjacent to the main river **channel**. Inland water rules for safety apply. Boat operations training, will not be conducted under the following conditions:

a. When retrieval of an individual cannot be made within time/temperature parameters to prevent an individual from becoming hypothermic.

b. If the wind velocity is a steady 17 knots or more.

c. If waves are high enough to cause the craft being used to ship water.

d. Waves are three feet or higher.

5. Medical. A corpsman with access to oxygen and an oxygen mask is required for any training involving open water operations. A safety vehicle will be staged at appropriate points along the best available road adjacent to the assault boat route.

6. Communications. Primary communications between the safety boat, training boats, and shore will be established and maintained by radio. Alternate signals such as flag or hand and arm signals will be used for backup emergency communications. Although not mandatory, day/night marine flares and pyrotechnics are recommended. When training on the Potomac River, Special Service Safety Boats will monitor Channel 16, Marine radio system.

7. Lunga Reservoir Requirements

a. The RCO, in conjunction with the Director, Morale, Welfare and Recreation Division will establish means to secure those portions of the **Lunga** Reservoir from all activities when the **SDZ's** extend into reservoir watershed area. Personnel using **Lunga** Reservoir will be informed when checking in, adjacent **SDZ's** and impact areas. Measures will be taken to notify personnel already in the recreation area of any changes to the training schedule that affect their activities.

b. The boundary between **Lunga** Reservoir (controlled by the Director, Morale, Welfare, and Recreation Division) and the restricted **TA's** (controlled by the RCO) will be:

- (1) Route 617 on the East.
- (2) Grid line 69 on the North.
- (3) Grid line 84 on the West.

8. DZ and Helocast Exercises

a. Waterjump and helocast exercises will be conducted in **Lunga** or Breckinridge Reservoir. A motorized safety boat will be present during these operations.

b. Parachute operations, to include waterjump exercises, will be conducted per unit **SOP's** and applicable regulations. Units without an appropriate parachute SOP will not be authorized to conduct parachute training at MCCDC. The unit SOP must be reviewed and approved for training by the Director, Operations Division prior to any scheduled exercise.

3208. MEDICAL SUPPORT AND MEDICAL EVACUATION PROCEDURES

1. Units training aboard MCCDC will plan, coordinate, and arrange for their own medical support corresponding to the anticipated hazards. Required medical support should include, at a minimum, one corpsman and a designated safety vehicle. The safety vehicle may not be used for any other purpose, and must have the capacity to place an injured individual horizontally on a stretcher. The safety vehicle must also contain a medical kit. A POV is not an acceptable safety vehicle.

2. All external units/agencies requiring MCCDC medical support will indicate their requirements on their initial request for **TA/range** utilization. Such requests will be disapproved if adequate medical support is not available.

3. Medical Evacuation (Medevac) Procedures

a. MCCDCO 3730.1, NMCLQUATINST 3314.1, and the Memorandum of Understanding between Stafford County, Prince William County, the FBI Academy, and MCCDC apply.

b. Ground transportation is the primary means of emergency medevac. Seriously injured personnel will normally be transported to Potomac Hospital in Woodbridge or Mary Washington Hospital in Fredericksburg. In the event of serious injury, 911 will have primary authority in determining which mode of transportation should be used. Emergency medevac by helicopter can be authorized when deemed appropriate by the senior officer and approved by competent medical authority.

c. If the injury is priority or urgent in nature, and requires immediate ambulatory support, the on scene unit will first call 911 and then notify Range Control. If phone service is not available, radio Range Control to initiate support.

d. Helicopter medevacs should be limited to remote areas not accessible by wheeled vehicle and cases requiring immediate hospital treatment such as severe hemorrhages, serious burns, injuries to vital organs, compound fractures, and cases involving loss of life or limb.

e. When requesting a medevac, units must notify Range Control and be prepared to provide the following information:

(1) Unit requesting medevac.

(2) Classification of injury.

(a) Routine. Any injury that is not threatening to life or limb. These injuries will be transported to the Naval Medical Clinic, Quantico (extension 2525) or TBS Medical Clinic at Camp Barrett (extension 5541).

(b) Priority. Requires immediate medical attention but is not life threatening.

(c) Urgent. Requires immediate medical attention and is life threatening.

(3) Nature of injury.

(4) Self transport, ambulance, or air evacuation desired (If self transporting, to which medical facility is the patient going?).

- (5) Name, grade, SSN, blood type, and unit of patient.
- (6) Location (grid coordinate, terrain, feature).
- (7) LZ from which patient will be extracted.

f. Range Control will notify all appropriate agencies after the request has been processed. Additionally, Range Control may direct the unit to a medical transfer point (MTP) in order to expedite coordination and evacuation with a civilian ambulance service. A MTP is a pre-coordinated area known to both the unit and the ambulance service where severely injured personnel may be transferred for transportation to an area hospital.

4. Directions To Area Hospitals

a. Potomac Hospital

- (1) Location. Woodbridge, VA.
- (2) Emergency Telephone Number. (703) 670-1363.
- (3) Approximate Driving Time from TBS. 25 minutes in moderate traffic.
- (4) Most Direct Route. Proceed north on I-95 to Exit 52 Dale City, turn right at first light onto Gideon Blvd, through next light, turn right at next light onto Smoketown Road, turn left onto Opitz Blvd. Potomac Hospital is at 2300 Opitz Blvd.

b. Mary Washington Hospital

- (1) Location. Fredericksburg, VA.
- (2) Emergency Telephone Number. (703) 899-1111.
- (3) Approximate Driving Time from TBS. 30 minutes.
- (4) Most Direct Route. Take I-95 South, exit Highway 17 Falmouth. Proceed to U.S. Route 1 and head south across the bridge into Fredericksburg. At the second light turn left. The hospital is two blocks further on the right hand side of the road (2300 Fall Hill Ave.).

3209. MISSING PERSONS SEARCH AND RESCUE PROCEDURES

1. General Information. Range Control must be notified immediately of all lost or missing personnel in **TA's** adjacent to live-fire ranges and impact areas so that cease fires may be issued without delay. The Provost Marshal will be notified by Range Control. MCCDCO 3130.1 applies to all missing persons search and rescue procedures.

2. Missing Persons Search Categories

a. Category I. Searches provide humanitarian assistance to State and local law enforcement agencies in order to locate lost or missing persons in the communities adjacent to MCCDC.

b. Category II. Searches involve locating lost or missing personnel, to include civilians, on the MCCDC reservation. **Category II** searches and requests for additional assistance or augmentation by units west of I-95 will be made to Range Control. Requests will then be promptly forwarded to the Director, **Operations Division or after working hours, to the MCCDC, CDO.** All requests from the area commander for additional support or external augmentation will be coordinated by the Director, Operations Division or the MCCDC, **CDO.**

c. Area commanders will specify required equipment, number of searchers, and will provide for rest and relief of searchers, as well as food, water, and other necessary support. Call signs and frequencies for a search mission are as follows:

- (1) Missing Persons **Net 38.70 - "Range Control".**
- (2) Alternate Net 34.35.
- (3) Ground Search **Teams - "Land Rover One", "Land Rover Two", etc.**
- (4) Helicopter Search Teams - **"Night Hawk _ _"** (the helicopter pilot will announce his **"side number"** after his call sign).
- (5) Director, Operations Division - **"Leave Three".**

3210. EOD

1. The EOD Section provides MCCDC with the capability to neutralize hazards associated with unexploded ordnance, which because of unusual circumstances, are beyond the normal capabilities of other occupational specialties and present a threat to operations, installations, personnel, or material.

2. The EOD Section provides routine training and emergency support including:

- a. 24 hour emergency response capability.
- b. EOD ordnance clearing sweeps.
- c. Escort of personnel into dud hazard impact area.
- d. Clearing of unexploded ordnance (duds).

- e. Handling of unserviceable ordnance.
- f. Disassembly/inerting of ordnance.
- g. Bomb threat and ordnance safety related classes.

3. Requesting Procedures

a. Routine requests for EOD support will be routed through the Director, Operations Division, at least seven working days in advance.

b. Emergency requests for EOD assistance during working hours: EOD extension 5314/5209/5204 or FM 38.70 call sign "EOD" or Range Control.

c. After working hours contact Range Control or the MCCDC, CDO at extension 2707.

4. Special Instructions

a. Destruction of dud ammunition will be accomplished per TM-g-1300-20-6 and applicable EOD bulletins.

b. Destruction of duds will be performed only by EOD personnel or personnel under their direct supervision.

TRAINING AREA AND RANGE SOP

CHAPTER 3

RANGE CONTROL POLICIES AND PROCEDURES

SECTION 3: SCHEDULING

3300. SCHEDULING REQUESTS

1. In order to coordinate among the various units training aboard MCCDC, each using unit/agency must submit an individual unit request to the Director, Operations Division for the area, range, or special facilities desired. All desired training facilities for a specific week may be listed on one request; however, individual units may not request a facility and **"turn-over"** that facility to any other unit. **LZ's** must be requested either by name or as part of a larger TA request (e.g., **"Request TA-16 and all LZ's located within TA-16"**).

2. The **"C"** Demo Area will be controlled by the Director, Operations Division, but is open to assignment to any organization upon request. The EOD Officer will receive priority.

3. The Buffalo Area or Engineer Test Site located in the northern portion of TA-4 will be controlled by the Director, Operations Division and will be open for assignment to any organization upon request. The Commanding General, MCRDAC will have priority.

4. Units of the Navy and Marine Corps Reserves will submit requests for **TA's** and ranges via the Director, Reserve Affairs Division. The Director, Reserve Affairs Division will coordinate these requests with the Director, Operations Division and Range Control. Upon arrival at MCCDC, each unit's advance party will then initiate direct liaison with Range Control as directed by the Director, Reserve Affairs Division.

3301. SUBMISSION REQUIREMENTS. Requests for training facilities, areas, and ranges will follow the schedule below. The deadlines are calculated from the Monday of the training week that the requested area is desired.

1. Requests from Officer Candidates School, **NCO** Leadership School, SNCO Academy, and TBS should be forwarded to the Director, Operations Division at least 30 days prior to the intended training date.

2. All other MCCDC military activities should submit requests at least 45 days prior to the intended training date.

3. External activities, (military, government, **USMCR/USNR** units, and civilians) must submit requests at least 60 days prior to the intended training date.

3302. SPECIAL INSTRUCTIONS

1. When first submitting a request, and annually thereafter, a civilian organization and its affiliations may be subjected to a background records check by the Provost Marshal's Office (PMO).
2. Requests submitted late, more than 180 days in advance, or incorrectly, may be denied or returned due to coordination or safety constraints.

3303. FIRE WARNING ORDER (FWO). The weekly Training Area and Range Schedule and master overlays published by the Director, Operations Division, constitute the Command FWO and verify scheduling requests. Designated units of this Command will receive the FWO approximately four weeks in advance.

3304. REQUEST FORMAT

1. The current MCCDC Form **1500/2** will be used for all MCCDC unit requests. Letters and cover letters are unnecessary for MCCDC military activities unless further explanation is required.
2. All other requesting units will provide at a minimum the following information. Requests must be on official unit/agency letterhead stationary.
 - a. Date and time with alternates.
 - b. TA or range with alternates.
 - c. Problem **Director/RSO**.
 - d. Number of personnel.
 - e. Intended use.
 - f. Ammunition/Weapons.
 - g.** Medical support required (if not provided).
 - h. Point of contact.
 - i. Logistical support required.
3. Units which must cancel or request to modify scheduled training will notify the **Head, Training** Branch, Operations Division as soon as possible at ext. **3421/3422**. All schedule changes or cancellations must be submitted in writing. To expedite submission of schedule changes, the Training Branch has Telefax capabilities at (703) 640-3450 or AV **278-3450**.

3305. TRAINING AREA/RANGE REQUEST APPROVAL

1. MCCDC units will be notified by telephone approximately four weeks in advance regarding **TA/range** request approval.
2. External or nonmilitary MCCDC activities will be informed by letter at least two weeks in advance regarding **TA/range** request approval. (NROTC/MCROTC will be notified of approval by the Director, Reserve Affairs Division).

3306. MULTI-UNIT USE. In order to accommodate the high volume of training conducted by various organizations, ranges may be utilized by more than one unit if the following conditions are met:

1. The combined training is safely compatible. The problem director of the host unit (the unit which initially scheduled the range) agrees to the proposed multi-unit use.
2. Coordination is made by the secondary unit (the unit requesting the multi-unit use of the area) with the host unit.
3. Range Control is made aware of additional units by the Director, Operations Division 24 hours prior to actual use.
4. Firing time will remain the same as the host unit's original request. Any changes will be authorized only by the Head, Training Branch, Operations Division.
5. If the secondary unit is conducting a joint exercise with the host unit, the host unit will be responsible for providing an **OIC/Range Safety Officer (RSO)** and medical personnel (applies when utilizing ranges only). Additionally, the host unit is ultimately responsible for police of the range.
6. If the secondary unit has no affiliation with the host unit, or is conducting a separate exercise, the secondary unit must provide its own **OIC/RSO** and medical personnel as well as maintain radio contact with Range Control. The secondary unit will also be responsible for its area of operations.

3307. WAIVERS

1. The Commanding General, MCCDC (C 03) may grant waivers for training requirements established in **MCO P3570.1**.
2. All requests for waivers must be properly staffed and coordinated. The activity requesting a waiver must provide their request with full justification via the chain of Command, at least 45 days in advance of the training evolution.

3. Airspace requirements may be waived only by the Federal Aviation Administration (FAA).

4. When a waiver or modification is requested, the requesting organization will furnish in writing the following data to assist in evaluation:

a. A statement citing which section/paragraph of **MCO P3570.1** is to be waived.

- (1) Description of conditions.
- (2) Scaled maps showing **SDZ's** overlays.
- (3) Personnel involved.
- (4) Facilities/areas exposed.
- (5) Scheme of maneuver.
- (6) Ammunition/weapons involved (identified in proper **TM's**).
- (7) Map coordinates of the firing position and elevation of fire.
- (8) Distances in meters of munitions fired.
- (9) Range Safety Card.
- (10) Profiles through the GTL showing the relative elevation of the piece to be fired.
- (11) The target and backstops (if any).
- (12) Profiles from the firing position through the right and left limits of fire.

b. Other precautions that will be taken to achieve operational safety to fully compensate for the lack of compliance with **MCO P3570.1** or other applicable directives.

5. All up-to-date waivers may be found on the Range Information Board located at Range Control.

TRAINING AREA AND RANGE SOP

APPENDIX B

LANDING ZONES

ZONE NAME	GRID COORDINATES	TRAINING AREA
Albatross	793763	TA-17A
Bigbird	781743	TA-14
Blackbird	774684	TA-9B
Bluebird	863733	TA-12A
Bluejay	796717	TA-14
Burgundy	907674	TA-6B
Buzzard	805725	TA-15A
Canary	843766	TA-16B
cardinal	795726	TA-15A
Chickadee	801738	TA-15A
condor	792764	TA-17A
cockatoo	852655	TA-8A
cookoo	786752	TA-15A
crackle	873733	TA-12A
Crane	884664	TA-8B
Crow	887749	TA-16G
David Crossroads	790710	TA-14
Dove	879654	TA-8A
Drake	806763	TA-15B
Duck	821743	TA-15B
Eagle	898664	TA-5A
Falcon	796727	TA-15A
Finch	865751	TA-16F
Goose	797753	TA-15A
Green	798754	TA-15A
Gull	882653	TA-5A
Harrier	873736	TA-16G
Hawk	869663	TA-8B
Hummingbird	791746	TA-15A
Kiwi	790725	TA-14
Lavender	882635	TA-5A
Loon	815649	TA-9C
LZ-2	984652	LEJEUNE HALL Parking Lot
LZ-3	983650	BASE CHAPEL
LZ-4	002654	Breckenridge Hall
LZ-5	001671	AWS

ZONE NAME	GRID COORDINATES	TRAINING AREA
LZ-6	873638	RAMER HALL TBS
LZ-7	867638	Athletic Field TBS
LZ-8	875636	Parade Field TBS
LZ-9	982631	Drill Field ocs
LZ-10	009664	Naval Medical Clinic
LZ-11	773723	Camp Goettge
LZ-12	I 800782	camp Upsher
LZ-13	877672	500 yd line Rifle Range
LZ-19	855745	TA-16E
LZ-20	864751	TA-16F
LZ-21	874772	TA-16G
LZ-22	872765	TA-16G
LZ-23	879761	TA-16G
LZ-24	829777	TA-16B
LZ-25	820776	TA-16A
LZ-26	805763	TA-15B
LZ-27	820760	TA-16A
Mallard	885693	TA-11B
Martin	878762	TA-16G
oak	786766	TA-17A
Oriole	I 880728	TA-12B
ostrich	892669	TA-8B
Owl	868666	TA-8B
Parakeet	873737	TA-16G
Parrot	787727	TA-14
Pelican	807727	TA-15B
Penguin	792757	TA-15A
Pheasant	820775	TA-16A
Quail	833732	TA-11A
RAL-2	962626	TA-3

TRAINING AREA AND RANGE SOP

ZONE NAME	GRID COORDINATES	TRAINING AREA
RAL-3	957630	TA-3
RAL-4	942630	TA-4
DZ Raven	877657	TA-8A
Red	775757	TA-14
Redbird	789661	TA-9B
DZ Redwing	798761	TA-15A
Robin	890704	TA-6B
Sawmill	838627	TA-7B
Silver	918702	TA-CA
Sparrow	863748	TA-16F
Starling I	908651	TA-5A
Stork	788760	TA-15A
Swan	864663	TA- 8A
swift	829762	TA-16A
Tern	807757	TA-158
Thrush	889640	TA-5A
Turkey	907693	TA-6A
Violet	820740	TA-15B
Vulture	827777	TA-16A
Willow	826724	TA-11A
Woodpecker	857738	TA-11A
Yellow	777758	TA-14
Yew	808724	TA-10
VIP-1	987644	MCAF
VIP-2	985652	LEJEUNE HALL Flag Pole